

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

PLUMBING SYMBOL LEGEND

(NOTE: NOT ALL SYMBOLS ARE USED IN THIS PROJECT)

SYMBOL	DESCRIPTION
	90° ELBOW
	45° ELBOW
	BRANCH CONNECTION OUT OF SIDE
	BRANCH CONNECTION OUT OF TWO SIDES
	RISER DOWN (ELBOW)
	RISER UP (ELBOW)
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF BOTTOM TO 90° ELBOW
	BRANCH CONNECTION OUT OF TOP TO 90° ELBOW
	RISER DOWN TO 90° ELBOW
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CIRCUIT SETTER
	GAS COCK
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	2-WAY MOTORIZED VALVE
	3-WAY MOTORIZED VALVE
	3-WAY VALVE
	ANGLE VALVE
	SWING CHECK VALVE
	UNION
	FLOW - IN DIRECTION OF ARROW
	CONCENTRIC REDUCER
	REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ)
	STRAINER-WYE
	STRAINER-WYE WITH BLOW OFF
	CAP ON END OF PIPE
	FLOOR CLEANOUT (SAME SIZE AS PIPE)
	CLEANOUT TO GRADE (SAME SIZE AS CARRIER PIPE)
	DOUBLE CLEANOUT TO GRADE (SAME SIZE AS CARRIER PIPE)
	WALL CLEANOUT
	CLEANOUT PLUG
	SHORT SWEEP BEND
	LONG SWEEP BEND
	VENT TEE
	SANITARY TEE
	WYE
	DOUBLE WYE
	DOUBLE SANITARY TEE
	WYE W/8TH BEND
	DBL. COMBINATION WYE W/8TH BEND
	1/8TH BEND

PLUMBING SYMBOL LEGEND

(NOTE: NOT ALL SYMBOLS ARE USED IN THIS PROJECT)

SYMBOL	DESCRIPTION
	PIPE ANCHOR
	FLEXIBLE CONNECTOR (FLEX. CONN.)
	WATER HAMMER ARRESTOR
	PRESSURE GAUGE
	THERMOMETER
	VALVE IN CAST IRON BOX
	NATURAL GAS CONNECTION
	COMPRESSED AIR CONNECTION
	AIR ADMITTANCE VALVE (MAXI STUDOR VENT)
	NEW PLUMBING FIXTURE
	EXISTING PLUMBING FIXTURE
	DEMOLISHED PLUMBING FIXTURE
	TANKLESS DOMESTIC WTR. HEATER
	DOMESTIC WATER HEATER
	WASHING MACHINE BOX
	WATER CONNECTION BOX
	WALL HYDRANT AND HOSE BIBB
	NATURAL GAS METER W/ REGULATOR
	NATURAL GAS REGULATOR
	WATER METER
	PRIMARY ROOF DRAIN (AS SHOWN ON ROOF PLAN)
	AUXILIARY ROOF DRAIN (AS SHOWN ON ROOF PLAN)
	PRIMARY ROOF DRAIN (AS SHOWN FROM BELOW)
	AUXILIARY ROOF DRAIN (AS SHOWN FROM BELOW)
	AUXILIARY OVERFLOW SCUPPER
	FLOOR DRAIN (ROUND AND SQUARE)
	HUB DRAIN
	FLOOR SINK (FULL GRATE, 1/2 GRATE AND 3/4 GRATE)
	TRENCH DRAIN
	SUMP PUMP
	FIXTURE TAG
	KEYED NOTE
	CONNECT TO EXISTING
	POINT OF DEMOLITION
	REVISION TAG
	PLUMBING RISER TAG
	EXISTING PIPE TO REMAIN
	DEMOLISHED PIPE
	NEW PIPE

PLUMBING SYSTEM LEGEND

(NOTE: NOT ALL SYSTEMS ARE USED IN THIS PROJECT)

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	DOMESTIC HOT WATER SUPPLY (140°F)
	DOMESTIC HOT WATER RETURN (140°F)
	DOMESTIC HOT WATER SUPPLY (160°F)
	DOMESTIC HOT WATER RETURN (160°F)
	SOFT WATER
	DE-IONIZED WATER
	DISTILLED WATER
	REVERSE OSMOSIS WATER
	NON-POTABLE WATER
	SANITARY SEWER
	COMBINATION WASTE AND VENT
	GREASE WASTE
	ACID WASTE
	ACID VENT
	PUMP DISCHARGE
	STORM DRAIN
	AUXILIARY STORM DRAIN
	OIL WASTE
	CONDENSATE DRAIN
	NATURAL GAS - 7"WC - 11"WC
	NATURAL GAS - 2 PSI
	NATURAL GAS - 5 PSI
	LIQUID PETROLEUM GAS - LOW PRESSURE
	LIQUID PETROLEUM GAS - HIGH PRESSURE
	CARBON DIOXIDE
	MEDICAL AIR
	LAB AIR
	NITROGEN
	NITROUS OXIDE
	OXYGEN
	LIQUID OXYGEN
	MEDICAL VACUUM
	LAB VACUUM
	WASTE ANESTHESIA GAS
	EXISTING MEDICAL AIR
	EXISTING MEDICAL VACUUM
	EXISTING NITROGEN
	EXISTING NITROUS OXIDE
	EXISTING OXYGEN
	EXISTING LABORATORY VACUUM
	EXISTING LABORATORY AIR
	EXISTING NATURAL GAS

PLUMBING DEMOLITION / RENOVATION NOTES

- IN THESE GENERAL NOTES, "PLUMBING" SHALL REFER TO, BUT NOT BE LIMITED TO SYSTEMS, COMPONENTS AND EQUIPMENT FOR HOT WATER, HOT WATER RETURN, COLD WATER, SEWER, SEWER VENTS, STORM SEWER, CONDENSATE WASTE, MEDICAL GAS, MEDICAL GAS OUTLETS, MEDICAL GAS EQUIPMENT, ISOLATION VALVES, BALANCING VALVE, REGULATORS, EQUIPMENT AND PIPING, ETC.
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO:
  - \* PIPE SYSTEMS, SIZES AND LOCATIONS.
  - \* VALVE LOCATIONS.
  - \* EQUIPMENT CONDITIONS, CONNECTIONS AND LOCATIONS.
  - \* BALANCING VALVES.
  - \* HAMMER ARRESTORS.
- ALL EXISTING PLUMBING EQUIPMENT AND PIPING ADJACENT TO AND/OR IN AREAS OF DEMOLITION SHALL BE PROPERLY IDENTIFIED FOR LOCATION, SIZE, CONDITION AND SYSTEM(S) OPERATION. ALL SYSTEMS SHALL BE COMPARED TO THE PLUMBING DRAWINGS AND EXISTING RECORD DRAWINGS (EXISTING RECORD DRAWINGS SHALL BE REQUESTED FROM GOVERNMENT) AND DOCUMENT ALL VARIATIONS. AFTER THE EXISTING SYSTEMS ARE INVESTIGATED AND DOCUMENTED, THE CONTRACTOR SHALL CAP AND/OR REMOVE ALL PLUMBING EQUIPMENT AND PIPING BACK TO POINT OF DEMOLITION BOUNDARY AS NOTED ON PLANS. DEMOLITION BOUNDARY AND PHASING SHALL BE COORDINATED WITH ARCHITECT AND VA PRIOR TO CONSTRUCTION. ALL BRANCHES AND DROPS NOT REMOVED SHALL BE CAPPED AND PREPARED FOR FUTURE RECONNECTION WHEN NEW EQUIPMENT AND/OR FIXTURES ARE INSTALLED, AS REQUIRED.
- COORDINATE AND SCHEDULE THE REMOVAL OF EXISTING PLUMBING AND SYSTEM SHUT-DOWNS WITH COR, ARCHITECT AND MAINTENANCE PERSONNEL PRIOR TO CONSTRUCTION.
- MAINTAIN EXISTING PLUMBING WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
- EXISTING PLUMBING EQUIPMENT BEING REMOVED AND NOT RE-USED, SHALL REMAIN THE PROPERTY OF THE VA (AS APPROVED BY THE VA) AND SHALL BE DELIVERED UPON REMOVAL TO LOCATION DESIGNATED BY THE VA. ALL OTHER SYSTEM COMPONENTS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- UPON COMPLETION OF NEW ADDITION, NEW PLUMBING EQUIPMENT AND PIPING WILL BE INSTALLED AS SHOWN ON RENOVATED PLUMBING PLANS. RECONNECT ALL EXISTING BRANCHES AND EQUIPMENT TO NEW SYSTEM PIPING AS REQUIRED FOR OPERATION.
- REPLACE AND/OR PATCH TO MATCH EXISTING. ANY COMPONENTS OF THE EXISTING PLUMBING SYSTEMS TO FACILITATE ITS INSTALLATION WITHIN THE NEW RENOVATED AREAS. SUCH ITEMS MAY INCLUDE, BUT NOT BE LIMITED TO, FITTINGS, SUPPORTS, NEW MOUNTING SYSTEMS, NEW ACCESS DOORS, ETC.
- DAMAGED, OR INOPERABLE PLUMBING COMPONENTS INSPECTED PRIOR TO DEMOLITION AND DETERMINED NOT SUITABLE FOR REUSE, THAT WILL EFFECT THE INTEGRITY OF THE OPERATION OF THE PLUMBING SYSTEM, SHALL BE REPLACED WITH NEW OF LIKE, OR EQUAL QUALITY.
- PATCH ALL WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING OR NEW (IF APPLIED) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND PLUMBING SYSTEM PENETRATIONS.
- REFER TO HVAC PLANS FOR EXTENT OF WORK RELATING TO PLUMBING PIPING CONNECTING TO HVAC EQUIPMENT TO BE REMOVED OR RELOCATED.
- THE ADJACENT SPACES WILL CONTINUE TO OPERATE DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT PLUMBING CONSTRUCTION DOES NOT IMPACT HOURS OF OPERATION. SEE ARCHITECTURAL SHEET FOR ADDITIONAL NOTES AND INSTRUCTIONS.

ACCESSIBILITY REQUIREMENTS

THIS SECTION APPLIES TO ACCESSIBLE FIXTURES ONLY.

- WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17"-19" MEASURED FROM THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG OR RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS NO MORE THAN 29" ABOVE FINISHED FLOOR. SEE ARCHITECTURAL SHEETS FOR GRAB BAR LOCATIONS.
- URINALS: THE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE FINISHED FLOOR. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED NO MORE THAN 44" ABOVE FINISHED FLOOR.
- LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM THE BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE FINISHED FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.
- FAUCETS-SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 lbf.
- SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6-1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER SINKS SHALL BE PROVIDED WITH INSULATING FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

BEHAVIORAL HEALTHCARE

THIS SECTION APPLIES TO MENTAL HEALTH FIXTURES FIXTURES ONLY.

- WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17"-19" MEASURED FROM THE TOP OF THE TOILET. VITREOUS CHINA AND/OR FABRICATED FROM HEAVY GAUGE, TYPE 304 STAINLESS STEEL WITH ALL-WELD CONSTRUCTION AND EXPOSED STAINLESS SURFACES POLISHED TO A SATIN FINISH. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER OF THE BOWL. PUSH BUTTON, RECESSED OPERATED FLUSH CONTROLS VALVE SHALL BE MOUNTED ON THE BACKSIDE OF THE TOILET AREAS NO MORE THAN 29" ABOVE FINISHED FLOOR. VANDAL RESISTANT.
- LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. VANDAL-RESISTANT TERRAZO SOLID SURFACE MATERIAL AND/OR FABRICATED FROM HEAVY GAUGE, TYPE 304 STAINLESS STEEL WITH ALL-WELD CONSTRUCTION AND EXPOSED STAINLESS SURFACES POLISHED TO A SATIN FINISH. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM THE BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE FINISHED FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES, ANGLE STOPS SHALL BE ENCASED BEHIND ENCLOSED COVER. PUSHBUTTON OR INFRARED ACTUATION, VANDAL RESISTANT.

CONSTRUCTION DOCUMENTS SUBMISSION  
FULLY SPRINKLERED

Revisions:	Date:	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title PLUMBING LEGEND AND NOTES	Project Title <b>EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS</b>		Project Number <b>CSI-112</b>	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM		
					Location LITTLE ROCK, ARKANSAS		Building Number 1			
				Approved: Project Director	Date 2015.03.06		Drawn SMITH	Checked SEAY	Drawing Number <b>PI001</b>	Dwg. 72 of 127



## PLUMBING GENERAL NOTES

1. ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.

2. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION.

3. BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS. THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.

4. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.

5. CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES; i.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL PRIOR TO CONSTRUCTION.

7. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION; i.e., SANITARY SEWER, STORM DRAIN, FIRE PROTECTION, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.

8. PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP OR BATTERY OF FIXTURES IN THE DOMESTIC CW, HW, HWR AND GAS PIPING. VALVES SHALL BE EASILY ACCESSIBLE. WHERE HARD CEILINGS ARE LOCATED, VALVES SHALL BE ACCESSED THROUGH ACCESS PANELS. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO CONSTRUCTION.

9. PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC., SHALL BE CHROME PLATED AND INSTALLED TIGHT TO WALL. WHERE PIPING IS EXPOSED, CHROME PLATED PIPE SHALL BE USED.

10. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.

11. SLOPE 2 1/2" AND SMALLER DRAIN WASTE AND VENT (DWV) LINES AT MIN. (2%) 1/4" FALL PER FT. 3" TO 6" DWV LINES AT MIN. (1%) 1/8" FALL PER FT. AND 8" AND LARGER DWV LINES AT MIN. (.5%) 1/16" FALL PER FT. SANITARY SEWER AND WATER SHALL BE A MINIMUM OF 10' APART OR THE DOMESTIC WATER SERVICE SHALL BE 12" ABOVE THE TOP OF THE SEWER LINE, AT ITS HIGHEST POINT, IF PLACED IN SAME TRENCH.

12. PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.

13. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.

14. PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES, AND ALL VERTICAL STACKS AT A HEIGHT OF 30' ABOVE FINISH FLOOR AT THE BASE OF EACH STACK.

15. WHERE WATER PRESSURES EXCEED 80 PSI, PROVIDE WATER PRESSURE REDUCING VALVES (PRV) WITH STRAINER IN WATER SUPPLY LINES, SETTING AT 80 PSI. SEE CODE AND MANUFACTURER INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS.

16. ALL PIPING PENETRATIONS OF THE RATED CEILING AND WALL MUST BE MADE WITH METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.

17. DO NOT ROUTE ANY PIPING OVER ELEC. ROOMS, COMPUTER ROOMS, OR ELEC. PANELS.

18. INSTALL AN AGA LISTED NATURAL GAS COCK, DIRT LEG AND UNION IMMEDIATELY UPSTREAM OF EQUIPMENT CONNECTIONS. AS NOTED ON DRAWINGS PROVIDE AN AGA LISTED VENT LIMITING GAS REGULATOR. GAS REGULATORS SHALL NOT BE INSTALLED IN AIR PLENUMS (SEE HVAC PLANS FOR AIR PLENUM LOCATIONS).

19. ALL DOMESTIC WATER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED BELOW INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. WHERE PIPING CAN NOT BE ROUTED BELOW INSULATION, PIPING SHALL HAVE 5 WATT/FT HEAT TRACING ATTACHED. SEE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND ENGINEER.

20. UNLESS OTHERWISE INDICATED DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.

21. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS AND GAS REGULATORS.

22. ALL STORM DRAIN, CONDENSATE DRAIN, SEWER & VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF CONSTRUCTION.

23. ALL PIPE DROPS FROM CEILING PLENUM TO FLOOR SHALL BE MADE IN FURROUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED BY ARCHITECT.

24. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.

25. BELOW SLAB WATER PIPE TO BE TYPE K SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS. SLEEVE IN ENTIRETY WITH ARMAFLEX OR APPROPRIATE POLYETHYLENE SLEEVE MATERIAL.

26. PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.

27. INSULATE ALL WATER, CONDENSATE, STORM DRAIN PIPING (VERTICAL AND HORIZONTAL) AND ROOF DRAIN BODIES ABOVE FINISH FLOOR. SEE SPECIFICATIONS FOR THICKNESS SCHEDULE.

28. INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.




29. ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS (EXISTING AND NEW) SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 OR A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND UL LISTINGS. IF ANY MATERIALS (EXISTING OR NEW) DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM-BOARD ENCLOSURE BE REPLACED WITH PLENUM RATED MATERIALS (I.E. CAST IRON), OR BE WRAPPED WITH AN APPROVED FIRE RATING MATERIAL, SUCH AS 3M FIRE WRAP. PLASTIC PIPING (PVC, ABS, AND CPVC) IS NOT ALLOWED TO BE INSTALLED WITHIN RETURN AIR PLENUMS. BY NECESSITY, WE HAVE NOTED AS MANY AREAS AS POSSIBLE ON THE PLANS WHERE THESE CONDITIONS OCCUR, BUT IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDITIONS (WHETHER SHOWN ON THE PLANS OR NOT) AND INCLUDE THE REPLACEMENT/WRAPPING OF THESE ITEMS IN THE BID PRICE (SEE NOTE 7 ABOVE). COORDINATE RETURN AIR PLENUM LOCATIONS AND ANY NOTED DISCREPANCIES FROM THE PLANS WITH MECHANICAL ENGINEER PRIOR TO BID.

30. FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE VERIFIED WITH EQUIPMENT LAYOUT FOR INTERFERENCES.

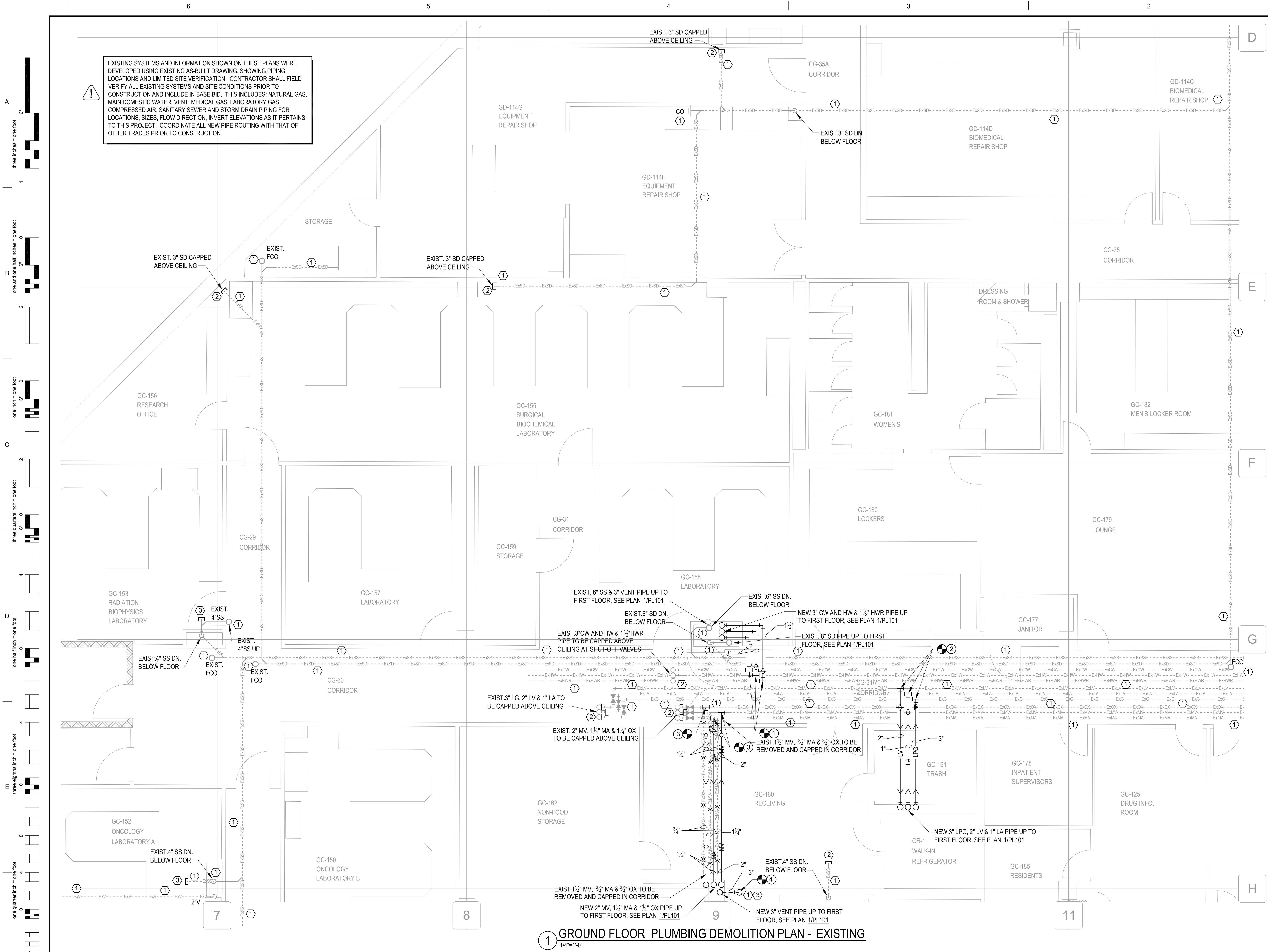
31. AN APPROVED TRAP GUARD PRODUCT CONFORMING TO NSF-14, CSA6802-99 AND CSA679-94 SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. ALL DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.

32. DOMESTIC WATER SERVICE PIPING AND FITTINGS; E.G., CHECK VALVES, RPZA, SHUT-OFF VALVES, STRAINERS, PRESSURE REGULATORS, ETC. SHALL COMPLY WITH NSF61 CRITERIA. ALL CAST IRON EQUIPMENT IS TO BE INTERNALLY EPOXY COATED.

# CONSTRUCTION DOCUMENTS SUBMISSION FULLY SPRINKLERED

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Revisions:		Date													





## KEYED DEMOLITION NOTES

- EXISTING CLEANOUTS (CO, FCO & WCO), SANITARY SEWER (ExSS), STORM DRAIN (ExSD), COLD WATER (ExCW), HOT WATER (ExHW) HOT WATER RETURN (ExHWR), NATURAL GAS (ExG) VENT (ExV), MEDICAL GAS (ExMA, ExMV & ExOX) AND LABORATORY GAS (ExLA & ExLV) PIPING TO REMAIN IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS.
- EXISTING SANITARY SEWER (ExSS), STORM DRAIN (ExSD), COLD WATER (ExCW), HOT WATER (ExHW), HOT WATER RETURN (ExHWR), NATURAL GAS (ExG) VENT (ExV), MEDICAL (ExMA, ExMV & ExOX) AND LABORATORY GAS (ExLA & ExLV) PIPING TO BE REMOVED IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS. CAP EXISTING SANITARY SEWER, STORM DRAIN, DOMESTIC WATER, VENT, MEDICAL AND LABORATORY GAS PIPING ABOVE CEILING AS NECESSARY.
- EXISTING SANITARY SEWER (ExSS) AND VENT (ExV) PIPING TO BE REMOVED ABOVE CEILING UP TO THIS POINT AND CAPPED TEMPORARILY FOR FUTURE SS AND VENT PIPING CONNECTIONS.

## GENERAL DEMOLITION NOTES

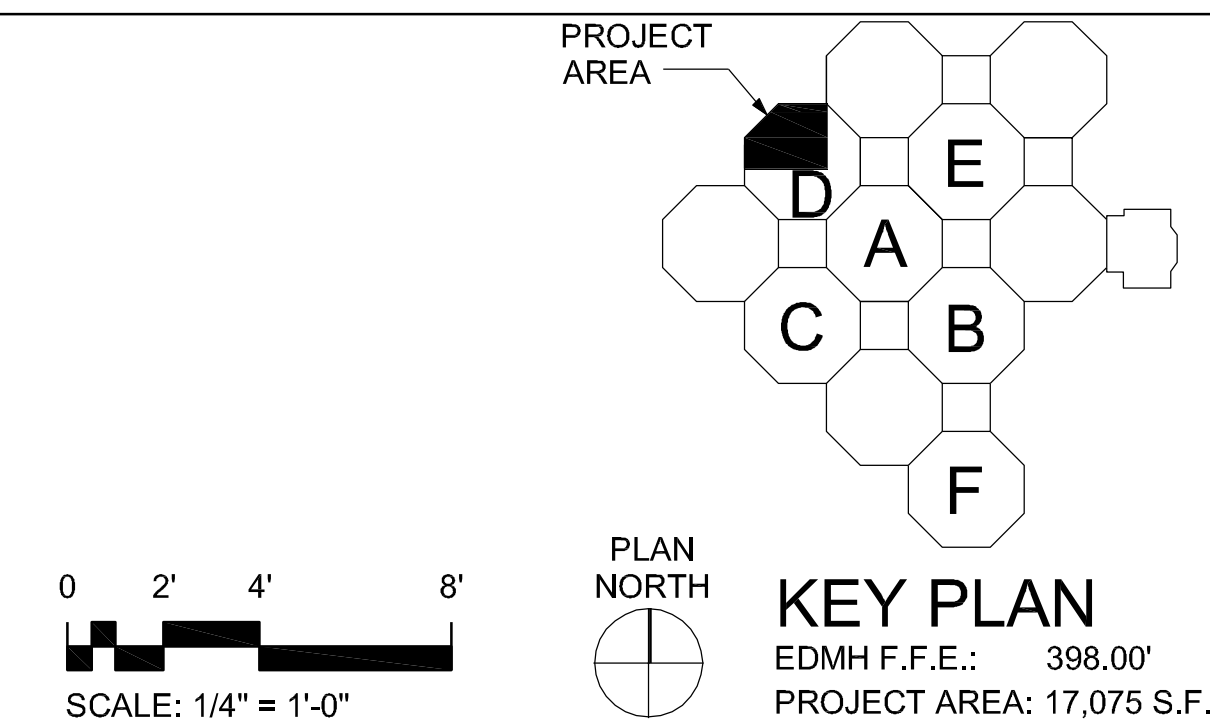
- SEE SHEET PD101 FOR ADDITIONAL NOTES AND LEGEND.
- THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS WHERE PLUMBING IS REMOVED.
- DEMOLITION "X"s INDICATE ITEMS TO BE REMOVED.
- THE CONTRACTOR SHALL RETURN ALL EXISTING PLUMBING FIXTURES (NOT SCHEDULED TO BE REUSED) TO OWNER.
- CONTRACTOR SHALL REFERENCE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND/OR NOTES FOR COMPLETE DEMOLITION.
- EXISTING GATE VALVES THAT IS A PART OF THE DEMOLITION, TO REMOVED AND REPLACED WITH NEW "LEAD FREE" BALL VALVES.

## KEYED NOTES

- CONNECT NEW 3" COLD WATER (CW), 3" HOT WATER (HW) & 1/2" HOT WATER RETURN PIPE TO EXISTING 4" ExCW, 3" ExHW AND 1/2" ExHWR PIPING ABOVE CEILING AT THIS POINT IN CORRIDOR. PROVIDE WITH NEW 4" X 4" X 3" TEE FITTING FOR CW PIPE, 3" X 3" X 3" TEE FITTING FOR HW PIPE AND 1/2" X 1/2" X 1/2" TEE FITTING FOR HWR PIPE AND ADD NEW BALL VALVES
- CONNECT NEW 3" NATURAL GAS (G), 2" LABORATORY VACUUM (LV) & 1" LABORATORY AIR (LA) PIPE TO EXISTING 3" ExG, 2" ExLV AND 1" ExLA PIPING ABOVE CEILING AT THIS POINT IN CORRIDOR. PROVIDE WITH NEW 3" X 3" X 3" TEE FITTING FOR G PIPE, 2" X 2" X 2" TEE FITTING FOR LV PIPE AND 1" X 1" X 1" TEE FITTING FOR LA PIPE AND ADD NEW BALL VALVE.
- CONNECT NEW 2" MEDICAL VACUUM (MV), 1/2" MEDICAL AIR (MA) & 1/4" MEDICAL OXYGEN (O) PIPE TO EXISTING 2" ExMV, 1/2" ExMA AND 1/4" ExOX PIPING ABOVE CEILING AT THIS POINT IN CORRIDOR. PROVIDE WITH NEW 2" X 2" X 2" TEE FITTING FOR MV PIPE AND 1/2" X 1/2" X 1/2" TEE FITTINGS FOR MA AND O PIPING AND ADD LOCKABLE BALL VALVES.
- CONNECT NEW 3" VENT PIPE TO EXISTING 3" VENT PIPING ABOVE CEILING AT THIS POINT WITH A NEW 3" X 3" 90° BEND FITTING AT VERTICAL DROP.

## GENERAL NOTES

- SEE SHEET PD101 FOR ADDITIONAL NOTES AND LEGEND.
- THE CONTRACTOR SHALL INSTALL AND CONNECT NEW PLUMBING SERVICE (SANITARY SEWER, STORM DRAIN, VENT, DOMESTIC WATER, MEDICAL GAS AND LABORATORY GAS PIPING) TO EXISTING. THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS IMPACTED BY NEW CONSTRUCTION WORK.
- NEW SANITARY SEWER, STORM DRAIN, VENT, DOMESTIC WATER, MEDICAL GAS AND LABORATORY GAS PIPING AT CEILING STRUCTURE SHALL BE COORDINATED WITH ALL EXISTING CONDITION AND OTHER TRADES IN THIS AREA, AND SHALL NOT BE ROUTED OVER ANY ELECTRICAL AND DATA ROOMS.
- ALL DOMESTIC WATER PIPING SHALL BE INSULATED INSIDE OF BUILDING.
- PROVIDE SHOCK ARRESTORS PER P.D.I. (PISTOL TYPE) AT EACH FIXTURE GROUP AND ISOLATED FIXTURES.
- ALL FIXTURES SHALL BE VENTED PER ALL STATE AND LOCAL CODES AND JURISDICTIONS.



## GROUND FLOOR PLUMBING DEMOLITION PLAN - EXISTING

### CONSULTANTS:

**CIVIL:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900

**MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900

### ARCHITECT/ENGINEERS:



BES DESIGN/BUILD, LLC  
766 Middle St, Fairhope, AL 36532  
Phone: 251.990.5778  
Fax: 251.990.3716

### GROUND FLOOR PLUMBING DEMOLITION PLAN - EXISTING

Approved: Project Director

### EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS

Location  
LITTLE ROCK, ARKANSAS

Date  
2015.03.06

Drawn  
SMITH

Checked  
SEAY

Project Number  
CSI-112

Building Number  
1

Drawing Number

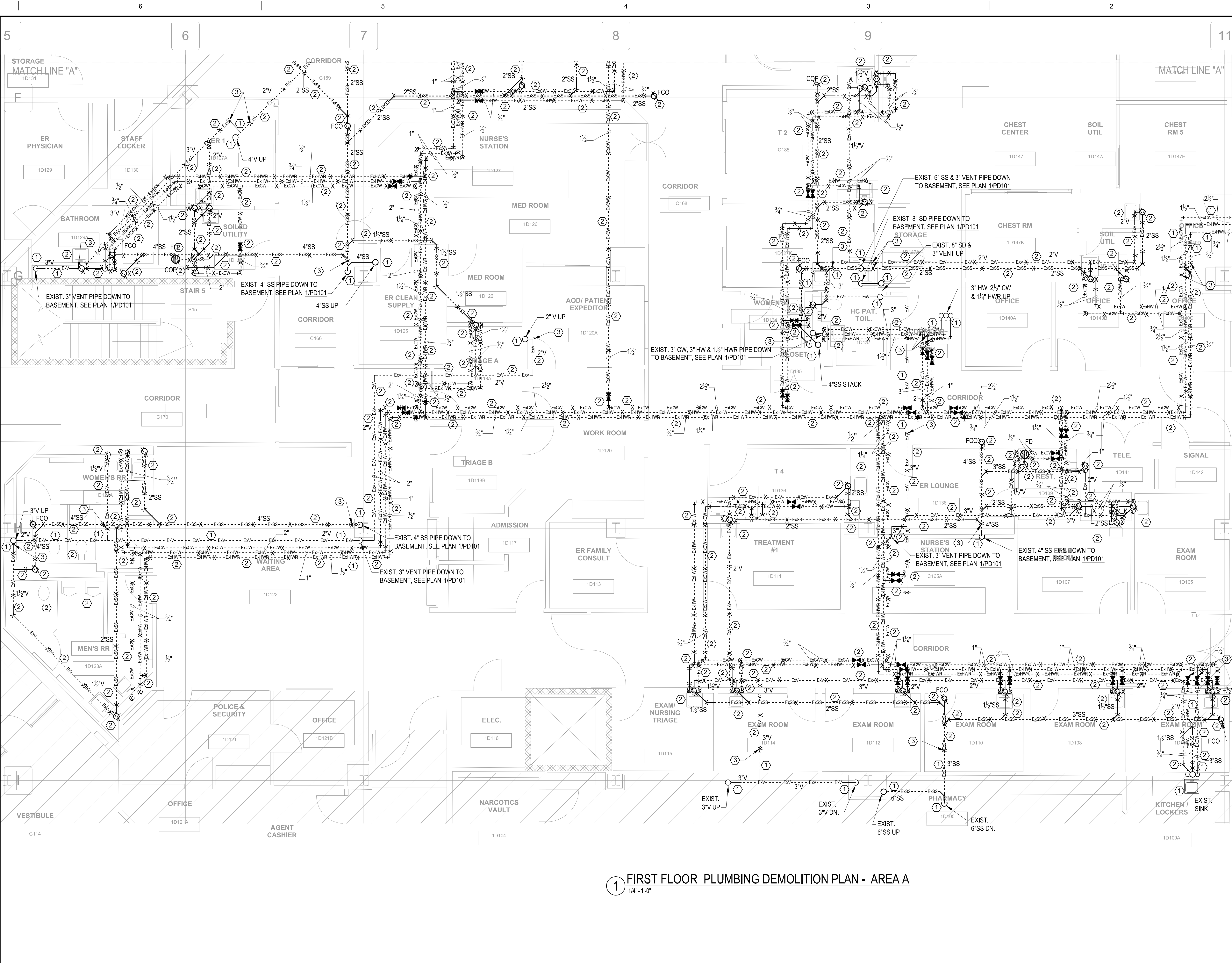
PD101

Dwg. 74 of 127

CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM







**KEYED DEMOLITION NOTES**

- EXISTING FLOOR DRAINS (FD), ROOF DRAIN (RD), CLEANOUTS (CO, FCO & WCO), PLUMBING FIXTURES, SANITARY SEWER (EXSS), STORM DRAIN (EXSD), COLD WATER WATER (EXCW), HOT WATER (EXHW) HOT WATER RETURN (EXHWR) AND VENT (EXV) PIPING TO REMAIN IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS.
- EXISTING FLOOR DRAINS (FD), ROOF DRAIN (RD), CLEANOUTS (CO, FCO, & WCO), PLUMBING FIXTURES, SANITARY SEWER (EXSS), STORM DRAIN (EXSD), COLD WATER WATER (EXCW), HOT WATER (EXHW), HOT WATER RETURN (EXHWR) AND VENT (EXV) PIPING TO BE REMOVED ENTIRELY IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS. CAP EXISTING SANITARY SEWER (EXSS), STORM DRAIN (EXSD), DOMESTIC WATER (EXCW, EXHW & EXHWR) AND VENT (EXV) PIPING ABOVE CEILING OR BELOW FLOOR AS NECESSARY.
- EXISTING SANITARY SEWER (SS), STORM DRAIN (SD), COLD WATER (CW), HOT WATER (HW), HOT WATER RETURN (HWR) AND VENT PIPING TO BE REMOVED ABOVE CEILING OR BELOW FLOOR, UP TO THIS POINT AND CAPPED TEMPORARILY FOR FUTURE SS, SD, CW, HW, HWR AND VENT PIPING CONNECTIONS.

**GENERAL DEMOLITION NOTES**

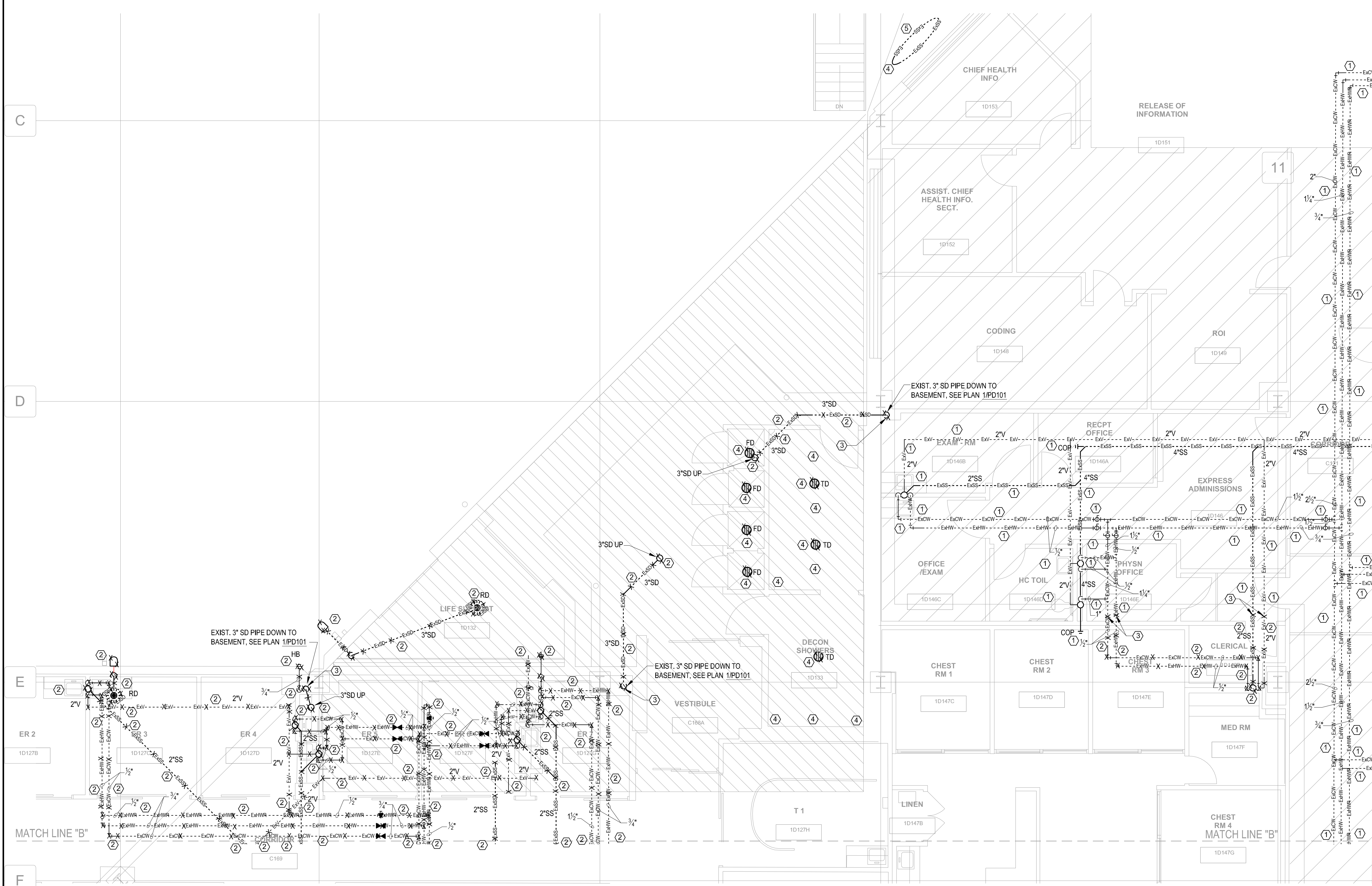
- SEE SHEET **PD001** FOR ADDITIONAL NOTES AND LEGEND.
- THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS WHERE PLUMBING IS REMOVED.
- DEMOLITION "X"s INDICATE ITEMS TO BE REMOVED.
- THE CONTRACTOR SHALL RETURN ALL EXISTING PLUMBING FIXTURES (NOT SCHEDULED TO BE REUSED) TO OWNER.
- CONTRACTOR SHALL REFERENCE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND/OR NOTES FOR COMPLETE DEMOLITION.
- EXISTING GATE VALVES THAT IS A PART OF THE DEMOLITION, TO BE REMOVED AND REPLACED WITH NEW "LEAD FREE" BALL VALVES.

EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING AS-BUILT DRAWING, SHOWING PIPING LOCATIONS AND LIMITED SITE VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SYSTEMS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND INCLUDE IN BASE BID. THIS INCLUDES: NATURAL GAS, MAIN DOMESTIC WATER, VENT, MEDICAL GAS, LABORATORY GAS, COMPRESSED AIR, SANITARY SEWER AND STORM DRAIN PIPING FOR LOCATIONS, SIZES, FLOW DIRECTION, INVERT ELEVATIONS AS IT PERTAINS TO THIS PROJECT. COORDINATE ALL NEW PIPE ROUTING WITH THAT OF OTHER TRADES PRIOR TO CONSTRUCTION.

<b>CONSULTANTS:</b> <b>CIVIL:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900 <b>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		<b>ARCHITECT/ENGINEERS:</b>  BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716	<b>Project Title</b> FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA A <b>Project Number</b> CSI-112 <b>Building Number</b> 1 <b>Location</b> LITTLE ROCK, ARKANSAS <b>Date</b> 2015.03.06 <b>Drawn</b> SMITH <b>Checked</b> SEAY <b>Dwg.</b> 75 of 127	<b>Project Title</b> EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS <b>Project Number</b> CSI-112 <b>Building Number</b> 1 <b>Location</b> LITTLE ROCK, ARKANSAS <b>Date</b> 2015.03.06 <b>Drawn</b> SMITH <b>Checked</b> SEAY <b>Dwg.</b> 75 of 127	<b>CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM</b> 
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A  
three inches = one foot  
1  
0  
6  
B  
one and one half inches = one foot  
2  
0  
6  
C  
one inch = one foot  
2  
0  
6  
D  
three quarters inch = one foot  
4  
0  
6  
E  
one half inch = one foot  
4  
0  
6  
F  
three eighths inch = one foot  
8  
0  
4  
G  
one quarter inch = one foot  
4  
0  
6  
H  
one eighth inch = one foot  
16  
0  
4  
I  
one sixteenth inch = one foot  
32  
0  
4



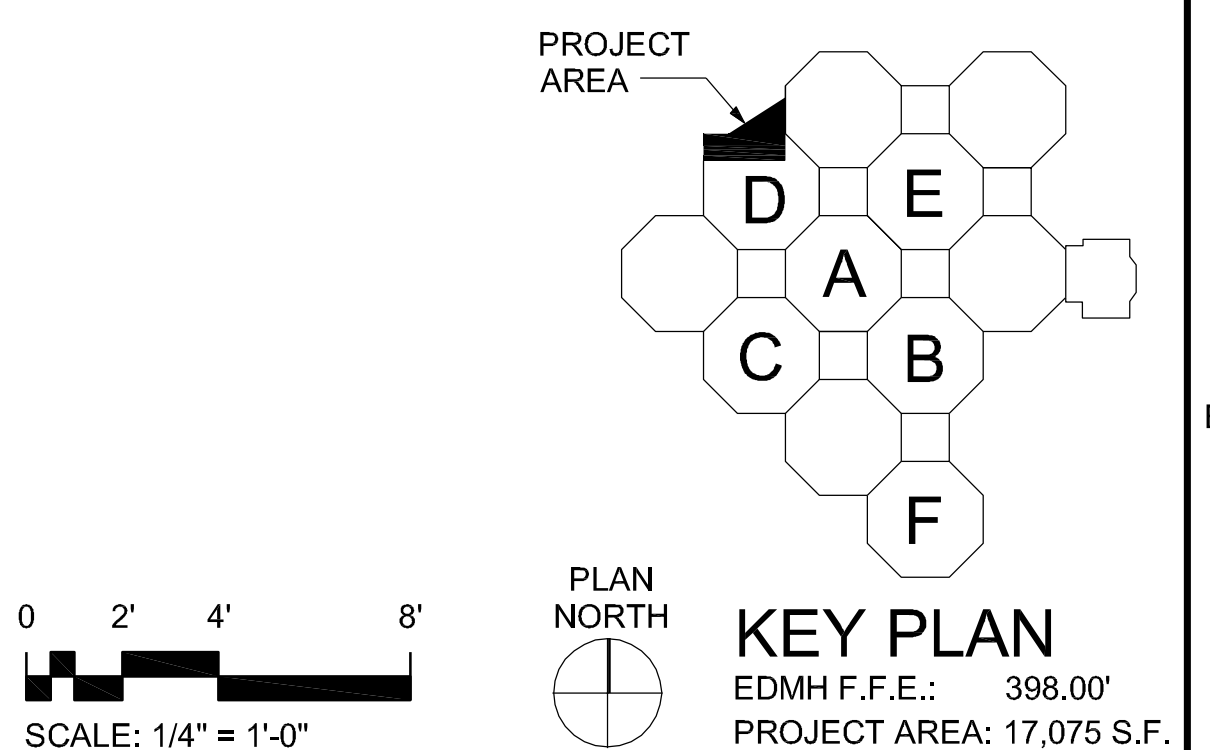
**KEYED DEMOLITION NOTES**

- EXISTING FLOOR DRAINS (FD), ROOF DRAIN (RD), CLEANOUTS (CO, FCO & WCO), PLUMBING FIXTURES, SANITARY SEWER (EXSS), STORM DRAIN (EXSD), COLD WATER (EXCW), HOT WATER (EXHW) HOT WATER RETURN (EXHWR) AND VENT (EXV) PIPING TO REMAIN IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS.
- EXISTING FLOOR DRAINS (FD), ROOF DRAIN (RD), CLEANOUTS (CO, FCO, & WCO), PLUMBING FIXTURES, SANITARY SEWER (EXSS), STORM DRAIN (EXSD), COLD WATER (EXCW), HOT WATER (EXHW), HOT WATER RETURN (EXHWR) AND VENT (EXV) PIPING TO BE REMOVED ENTIRELY IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS. CAP EXISTING SANITARY SEWER (EXSS), STORM DRAIN (EXSD), DOMESTIC WATER (EXCW, EXHW & EXHWR) AND VENT (EXV) PIPING ABOVE CEILING OR BELOW FLOOR AS NECESSARY.
- EXISTING SANITARY SEWER (EXSS), STORM DRAIN (EXSD), COLD WATER (EXCW), HOT WATER (EXHW), HOT WATER RETURN (EXHWR) AND VENT (EXV) PIPING TO BE REMOVED ABOVE CEILING OR BELOW FLOOR. UP TO THIS POINT AND CAPPED TEMPORARILY FOR FUTURE SS, SD, CW, HW, HWR AND VENT PIPING CONNECTIONS.
- EXISTING FLOOR DRAINS (FD), TRENCH DRAINS (TD), SHOWER HEADS AND HOSES, MIXING VALVE, SANITARY SEWER (SS), VENT, COLD WATER (CW), HOT WATER (HW) PIPING IN DECONTAMINATION AREA TO BE REMOVED ENTIRELY. REMOVE EXISTING SS PIPING UP TO DECONTAMINATION STORAGE TANK AND CAPPED FOR FUTURE SS CONNECTION.
- EXISTING DECONTAMINATION STORAGE TANK TO REMAIN AND REUSED. REMOVE AND CAPPED 4\"/>

**GENERAL DEMOLITION NOTES**

- SEE SHEET **PD101** FOR ADDITIONAL NOTES AND LEGEND.
- THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS WHERE PLUMBING IS REMOVED.
- DEMOLITION "X" INDICATE ITEMS TO BE REMOVED.
- THE CONTRACTOR SHALL RETURN ALL EXISTING PLUMBING FIXTURES (NOT SCHEDULED TO BE REUSED) TO OWNER.
- CONTRACTOR SHALL REFERENCE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND/OR NOTES FOR COMPLETE DEMOLITION.
- EXISTING GATE VALVES THAT IS A PART OF THE DEMOLITION, TO REMOVED AND REPLACED WITH NEW "LEAD FREE" BALL VALVES.

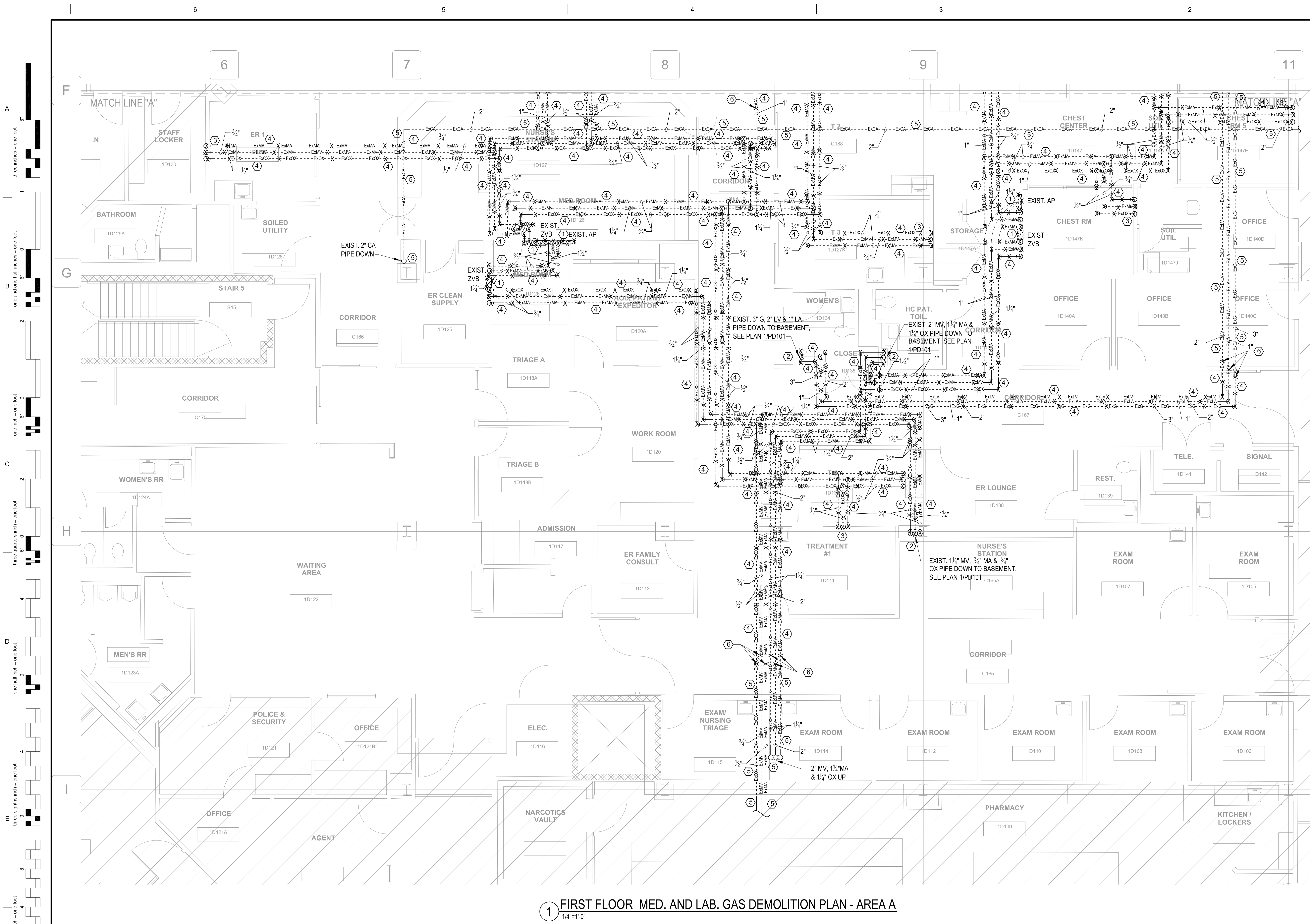
EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING AS-BUILT DRAWING, SHOWING PIPING LOCATIONS AND LIMITED SITE VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SYSTEMS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND INCLUDE IN BASE BID. THIS INCLUDES: NATURAL GAS, MAIN DOMESTIC WATER, VENT, MEDICAL GAS, LABORATORY GAS, COMPRESSED AIR, SANITARY SEWER AND STORM DRAIN PIPING FOR LOCATIONS, SIZES, FLOW DIRECTION, INVERT ELEVATIONS AS IT PERTAINS TO THIS PROJECT. COORDINATE ALL NEW PIPE ROUTING WITH THAT OF OTHER TRADES PRIOR TO CONSTRUCTION.



**1 FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA B**  
1/4"=1'-0"

<b>CONSULTANTS:</b> <b>CIVIL:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900 <b>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		<b>ARCHITECT/ENGINEERS:</b>  BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		<b>Drawing Title</b> FIRST FLOOR PLUMBING DEMOLITION PLAN - AREA B	<b>Project Title</b> EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS	<b>Project Number</b> CSI-112 <b>Building Number</b> 1	<b>CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM</b> 
<b>Revisions:</b>	<b>Date</b>			<b>Approved:</b> Project Director	<b>Location</b> LITTLE ROCK, ARKANSAS	<b>Drawing Number</b> PD103	
				<b>Date</b> 2015.03.06	<b>Drawn</b> SMITH	<b>Checked</b> SEAY	<b>Dwg. 76 of 127</b>

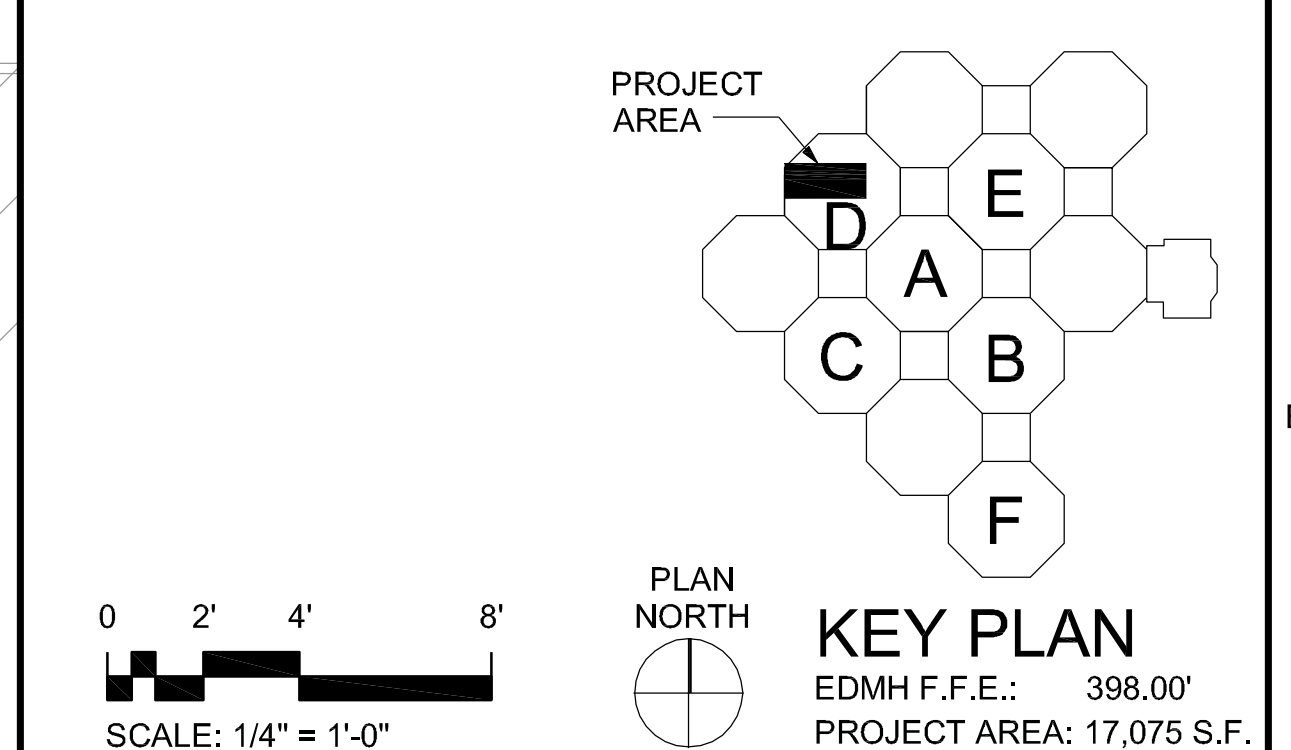




- ## KEYED DEMOLITION NOTES
- ① EXISTING ZONE VALVE BOXES (ZVB), LOCAL ALARM PANELS (AP) & WIRING AND MEDICAL GAS PIPING IN WALL TO BE REMOVED ENTIRELY IN THIS AREA.
  - ② EXISTING MEDICAL AIR (EXMA), MEDICAL VACUUM (EXMV), OXYGEN (EOX), LABORATORY AIR (EXLA), LABORATORY VACUUM (EXLV) & NATURAL GAS (EXG) PIPING ABOVE CEILING AND IN WALL TO BE REMOVED AND CAPPED BELOW FLOOR, UNLESS OTHERWISE INDICATED ON PLANS.
  - ③ EXISTING MEDICAL GAS (EXMA, EXMV & EXOX) OUTLETS/HEADWALLS AND PIPING IN WALL TO BE REMOVED ENTIRELY IN THIS AREA.
  - ④ EXISTING MEDICAL AIR (EXMA), MEDICAL VACUUM (EXMV), OXYGEN (EOX), LABORATORY AIR (EXLA), LABORATORY VACUUM (EXLV), NATURAL GAS (EXG) & COMPRESSED AIR (EXCA) PIPING ABOVE CEILING TO BE REMOVED ENTIRELY IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS.
  - ⑤ EXISTING MEDICAL AIR (EXMA), MEDICAL VACUUM (EXMV), OXYGEN (EOX), LABORATORY AIR (EXLA), LABORATORY VACUUM (EXLV), NATURAL GAS (EXG) & COMPRESSED AIR (EXCA) PIPING ABOVE CEILING TO REMAIN ENTIRELY IN THIS AREA, INLESS OTHERWISE INDICATED ON PLANS.
  - ⑥ EXISTING MEDICAL GAS (EXMA, EXMV & EXOX), LABORATORY GAS (EXLA & EXLV), NATURAL GAS (EXG) & COMPRESSED AIR (EXCA) PIPING ABOVE CEILING TO BE REMOVED UP TO THIS POINT AND CAPPED TEMPORARILY FOR FUTURE MEDICAL GAS, LABORATORY GAS, NATURAL GAS & COMPRESSED AIR PIPING CONNECTIONS, UNLESS OTHERWISE INDICATED ON PLANS.

- ## GENERAL DEMOLITION NOTES
1. SEE SHEET **P1001** FOR ADDITIONAL NOTES AND LEGEND.
  2. ALL MEDICAL GAS WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NFPA 99 AND PROJECT SPECIFICATIONS.
  3. DEMOLITION "X"s INDICATE ITEMS TO BE REMOVED.
  4. THE CONTRACTOR SHALL RETURN ALL EXISTING MEDICAL GAS EQUIPMENT (NOT SCHEDULE TO BE REUSED) TO OWNER.
  5. CONTRACTOR SHALL REFERENCE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWING AND/OR NOTES FOR COMPLETE DEMOLITION.

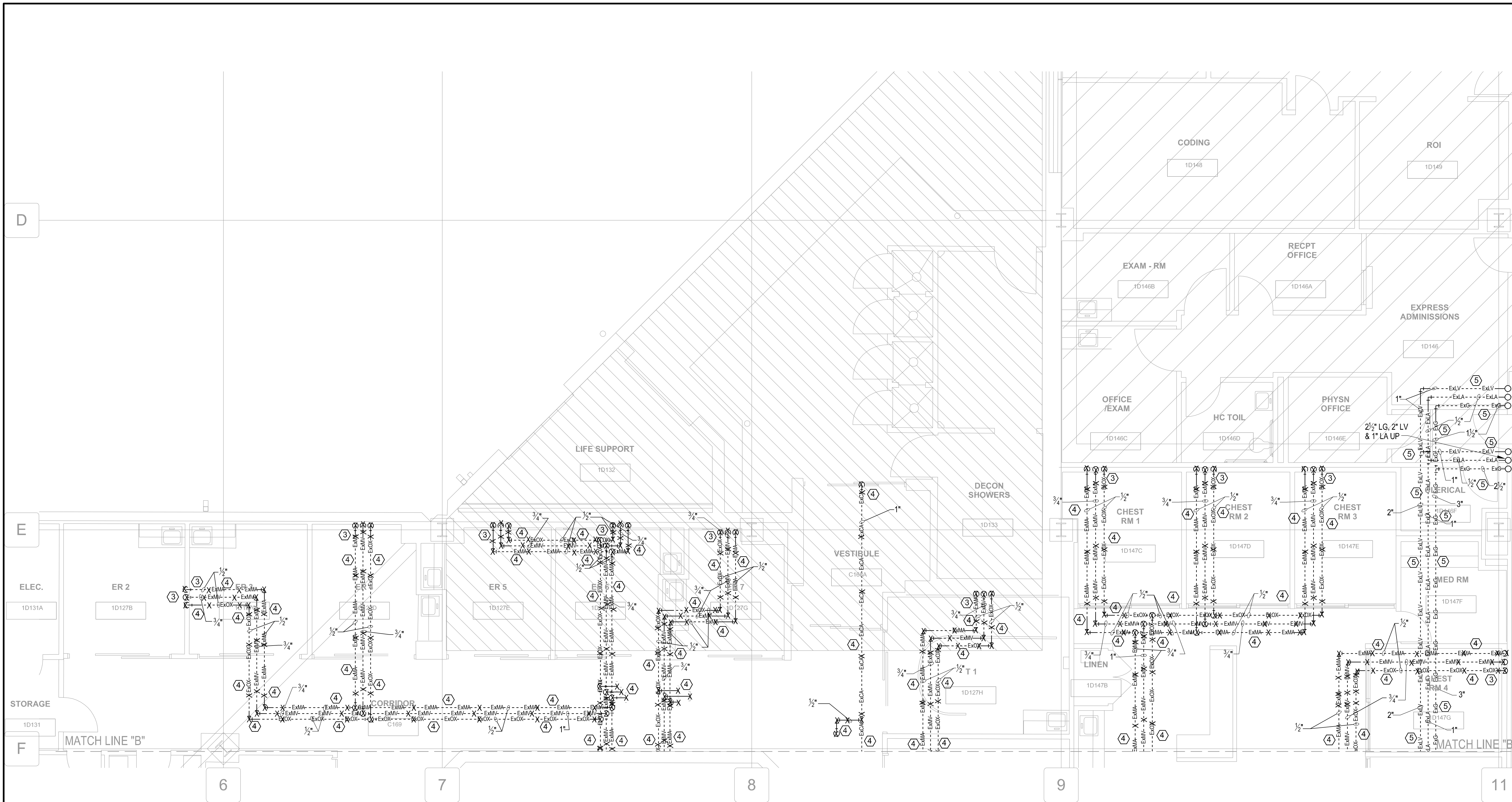
EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING AS-BUILT DRAWING, SHOWING PIPING LOCATIONS AND LIMITED SITE VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SYSTEMS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND INCLUDE IN BASE BID. THIS INCLUDES: NATURAL GAS, MAIN DOMESTIC WATER, VENT, MEDICAL GAS, LABORATORY GAS, COMPRESSED AIR, SANITARY SEWER AND STORM DRAIN PIPING FOR LOCATIONS, SIZES, FLOW DIRECTION, INVERT ELEVATIONS AS IT PERTAINS TO THIS PROJECT. COORDINATE ALL NEW PIPE ROUTING WITH THAT OF OTHER TRADES PRIOR TO CONSTRUCTION.



	<b>CONSULTANTS:</b>  <b>CIVIL:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900	<b>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		<b>ARCHITECT/ENGINEERS:</b>    BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716	Drawing Title <b>FIRST FLOOR MED. AND LAB. GAS DEMOLITION PLAN - AREA A</b>  Approved: Project Director	Project Title <b>EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS</b>  Location <b>LITTLE ROCK, ARKANSAS</b>  Date <b>2015.03.06</b>	Project Number <b>CSI-112</b> Building Number <b>1</b>  Drawing Number <b>PD104</b> Dwg. <b>77</b> of <b>127</b>	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM  Department of Veterans Affairs
	Revisions:	Date				Drawn SMITH  Checked SEAY		



Three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



1 FIRST FLOOR MED. AND LAB. GAS DEMOLITION PLAN - AREA B  
1/4"=1'-0"

KEYED DEMOLITION NOTES

- EXISTING ZONE VALVE BOXES (ZVB), LOCAL ALARM PANELS (AP) & WIRING AND MEDICAL GAS PIPING IN WALL TO BE REMOVED ENTIRELY IN THIS AREA.
- EXISTING MEDICAL AIR (EXMA), MEDICAL VACUUM (EXMV), OXYGEN (EXO), LABORATORY AIR (EXLA), LABORATORY VACUUM (EXLV) & NATURAL GAS (EXG) PIPING ABOVE CEILING AND IN WALL TO BE REMOVED AND CAPPED BELOW FLOOR, UNLESS OTHERWISE INDICATED ON PLANS.
- EXISTING MEDICAL GAS (EXMA, EXMV & EXOX) OUTLETS/HEADWALLS AND PIPING IN WALL TO BE REMOVED ENTIRELY IN THIS AREA.
- EXISTING MEDICAL AIR (EXMA), MEDICAL VACUUM (EXMV), OXYGEN (EXO), LABORATORY AIR (EXLA), LABORATORY VACUUM (EXLV), NATURAL GAS (EXG) & COMPRESSED AIR (EXCA) PIPING ABOVE CEILING TO BE REMOVED ENTIRELY IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS.
- EXISTING MEDICAL AIR (EXMA), MEDICAL VACUUM (EXMV), OXYGEN (EXO), LABORATORY AIR (EXLA), LABORATORY VACUUM (EXLV), NATURAL GAS (EXG) & COMPRESSED AIR (EXCA) PIPING ABOVE CEILING TO REMAIN ENTIRELY IN THIS AREA, UNLESS OTHERWISE INDICATED ON PLANS.
- EXISTING MEDICAL GAS (EXMA, EXMV & EXOX), LABORATORY GAS (EXLA & EXLV), NATURAL GAS (EXG) & COMPRESSED AIR (EXCA) PIPING ABOVE CEILING TO BE REMOVED UP TO THIS POINT AND CAPPED TEMPORARILY FOR FUTURE MEDICAL GAS, LABORATORY GAS, NATURAL GAS & COMPRESSED AIR PIPING CONNECTIONS, UNLESS OTHERWISE INDICATED ON PLANS.

GENERAL DEMOLITION NOTES

- SEE SHEET PD101 FOR ADDITIONAL NOTES AND LEGEND.
- ALL MEDICAL GAS WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NFPA 99 AND PROJECT SPECIFICATIONS.
- DEMOLITION "X"s INDICATE ITEMS TO BE REMOVED.
- THE CONTRACTOR SHALL RETURN ALL EXISTING MEDICAL GAS EQUIPMENT (NOT SCHEDULE TO BE REUSED) TO OWNER.
- CONTRACTOR SHALL REFERENCE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWING AND/OR NOTES FOR COMPLETE DEMOLITION.

EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING AS-BUILT DRAWING, SHOWING PIPING LOCATIONS AND LIMITED SITE VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SYSTEMS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND INCLUDE IN BASE BID. THIS INCLUDES: NATURAL GAS, MAIN DOMESTIC WATER, VENT, MEDICAL GAS, LABORATORY GAS, COMPRESSED AIR, SANITARY SEWER AND STORM DRAIN PIPING FOR LOCATIONS, SIZES, FLOW DIRECTION, INVERT ELEVATIONS AS IT PERTAINS TO THIS PROJECT. COORDINATE ALL NEW PIPE ROUTING WITH THAT OF OTHER TRADES PRIOR TO CONSTRUCTION.

PROJECT AREA

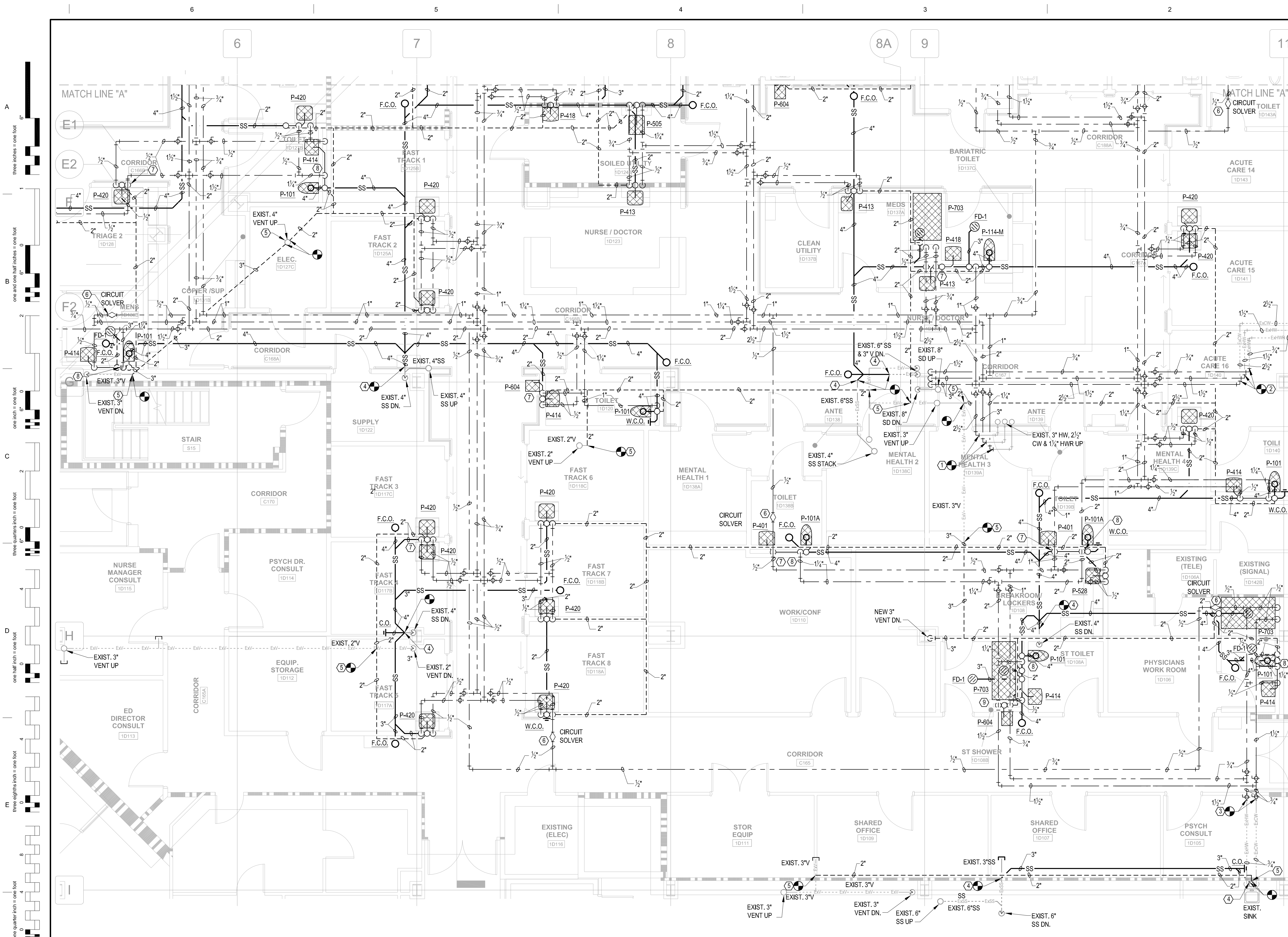
KEY PLAN  
EDMH F.F.E.: 398.00'  
PROJECT AREA: 17,075 S.F.

PLAN NORTH

CONSTRUCTION DOCUMENTS SUBMISSION  
FULLY SPRINKLERED

<b>CONSULTANTS:</b> <b>CIVIL:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900 <b>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		<b>ARCHITECT/ENGINEERS:</b>  BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		<b>Drawing Title</b> FIRST FLOOR MED. AND LAB. GAS DEMOLITION PLAN - AREA B	<b>Project Title</b> EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS	<b>Project Number</b> CSI-112 <b>Building Number</b> 1	<b>Central Arkansas Veterans Affairs Healthcare System</b> 
<b>Revisions:</b>	<b>Date</b>			<b>Approved:</b> Project Director	<b>Location</b> LITTLE ROCK, ARKANSAS	<b>Drawing Number</b> PD105	
				<b>Date</b> 2015.03.06	<b>Drawn</b> SMITH	<b>Checked</b> SEAY	<b>Dwg. 78 of 127</b>





1 FIRST FLOOR PLUMBING PLAN - AREA A  
1/4"=1'-0"

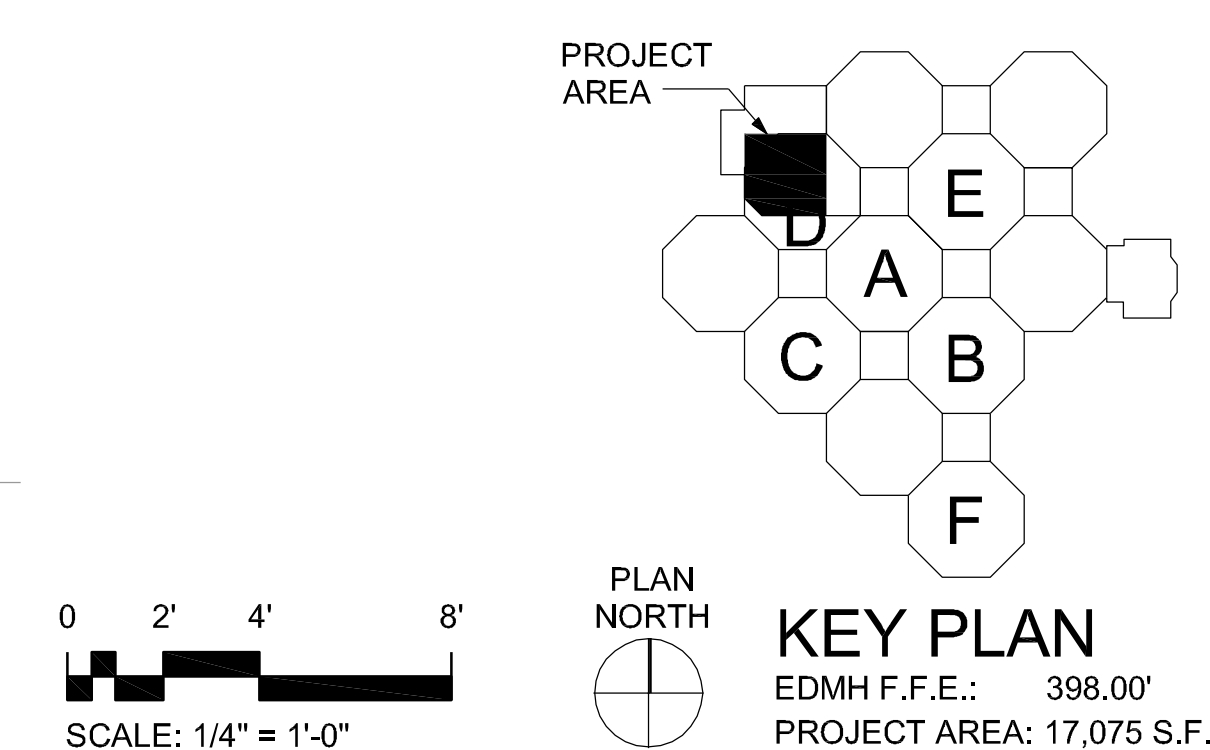
### KEYED NOTES

- CONNECT NEW 3" HOT WATER (HW), 2 1/2" COLD WATER (CW) & 1 1/2" HOT WATER RETURN (HWR) PIPE TO EXISTING 3" EXHW, 2 1/2" EXCW AND 1 1/2" EXHWR PIPING ABOVE CEILING AT THIS POINT. PROVIDE WITH NEW 3" X 3" 90° BEND/ELBOW FITTING FOR HW PIPE, 2 1/2" X 2 1/2" 90° BEND/ELBOW FITTING FOR CW PIPE AND 1 1/2" X 1 1/2" 90° BEND/ELBOW FITTING FOR HWR PIPE.
- CONNECT NEW 2 1/2" COLD WATER (CW), 1 1/2" HOT WATER (HW) & 3/4" HOT WATER RETURN (HWR) PIPE TO EXISTING 2 1/2" EXCW, 1 1/2" EXHW AND 3/4" EXHWR PIPING ABOVE CEILING AT THIS POINT. PROVIDE WITH NEW 2 1/2" X 2 1/2" 90° BEND/ELBOW FITTING FOR CW PIPE AND 1 1/2" X 1 1/2" 90° BEND/ELBOW FITTING FOR HW AND 3/4" X 3/4" 90° BEND/ELBOW FITTING FOR HWR PIPE.
- CONNECT NEW 3/4" COLD WATER (CW) 3/4" HOT WATER (HW) PIPE TO EXISTING 3/4" EXCW AND 3/4" EXHW PIPING ABOVE CEILING AT THIS POINT WITH A NEW 3/4" BALL VALVES.
- CONNECT NEW 2", 3" OR 4" SANITARY SEWER (SS) PIPE TO EXISTING 2", 3", 4" OR 6" EXSS PIPING BELOW FLOOR AT THIS POINT WITH A NEW 6" X 6" X 4", 6" X 6" X 3", 4" X 4" X 2", 4" X 4" X 3", 4" X 4" X 2", 3" X 3" X 3", 3" X 3" X 2" OR 2" X 2" X 2" WYE FITTING, 45° BEND/ELBOW OR COUPLING FITTING.
- CONNECT NEW 2", 3" OR 4" VENT PIPE TO EXISTING 2", 3" AND/OR 4" EXV PIPING ABOVE CEILING AT THIS POINT WITH NEW 3" X 3" X 2" X 2" CROSS FITTING, 4" X 3" X 3", 4" X 3" X 2", 3" X 3" X 2" OR 2" X 2" X 2" TEE FITTING, 4" X 4", 3" X 3", OR 2" X 2" 90° BEND/ELBOW OR COUPLING FITTING.
- PROVIDE THERMO-OMEGA-TECH #CIRCUIT SOLVER THERMOSTATIC CIRCUIT SETTER BALANCING VALVE, (SAME SIZE AS LINE, 5" F DELTA T-100°F AND 10°F DELTA T-120°F HWR). PROVIDE FULL PORT BALL VALVE AND UNION IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE BALANCING VALVE, SEE DETAIL 2/P-502.
- RUN 1/2" COLD WATER (CW) AND/OR HOT WATER (HW) PIPE DOWN IN WALL AND PROVIDE WITH 1/2" CW AND/OR HW PIPE STUB-OUTS TO SERVE SINGLE OR BACK-TO-BACK LAVATORIES AND/OR ELECTRIC WATER COOLER.
- RUN 1 1/2" COLD WATER (CW) PIPE DOWN IN WALL AND PROVIDE WITH 1" CW PIPE STUB-OUT TO SERVE WATER CLOSET AND 1/2" CW PIPE STUB-OUT TO SERVE LAVATORY.
- RUN 1/2" COLD WATER (CW) AND HOT WATER (HW) PIPE DOWN IN WALL AND PROVIDE WITH 1/2" CW AND 1/2" HW PIPE STUB-OUTS TO SERVE SHOWER AND/OR ELECTRIC WATER COOLER.

### GENERAL NOTES

- SEE SHEET P1001 FOR ADDITIONAL NOTES AND LEGEND.
- THE CONTRACTOR SHALL INSTALL AND CONNECT NEW PLUMBING SERVICE (SANITARY SEWER (SS), STORM SEWER (SD), VENT AND DOMESTIC WATER PIPING) TO EXISTING. THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS IMPACTED BY NEW CONSTRUCTION WORK.
- NEW SANITARY SEWER (SS), STORM SEWER (SD), VENT, DOMESTIC WATER PIPING AT CEILING STRUCTURE SHALL BE COORDINATED WITH ALL EXISTING CONDITION AND OTHER TRADES IN THIS AREA, AND SHALL NOT BE ROUTED OVER ANY ELECTRICAL AND DATA ROOMS.
- ALL DOMESTIC WATER PIPING SHALL BE INSULATED INSIDE OF BUILDING.
- PROVIDE SHOCK ARRESTORS PER P.D.I. (PISTOL TYPE) AT EACH FIXTURE GROUP AND ISOLATED FIXTURES.
- ALL FIXTURES SHALL BE VENTED PER ALL STATE AND LOCAL CODES AND JURISDICTIONS.
- ALL FAUCETS, WALL SUPPLIES AND STOPS FOR NEW PLUMBING FIXTURES (LAVATORIES, SINKS AND ELECTRIC WATER COOLER) TO BE "LEAD FREE" PER THE "SAFE DRINKING WATER ACT" AND NSF 61 AND NSF 372.

CONNECTION OF NEW PIPING TO EXISTING MAY CAUSE SIGNIFICANT OUTAGES THAT MUST BE COORDINATED WITH THE USER. COORDINATE ALL WORK WITH THE PHASING PLAN. THE VA WILL PROVIDE TEMPORARY MEDICAL GAS SERVICE, BUT OTHER TEMPORARY UTILITIES MUST BE PROVIDED DUE TO THE PHASING PROCESS.



#### CONSULTANTS:

**CIVIL:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900

**MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900

#### ARCHITECT/ENGINEERS:



BES DESIGN/BUILD, LLC  
766 Middle St, Fairhope, AL 36532  
Phone: 251.990.5778  
Fax: 251.990.3716

#### FIRST FLOOR PLUMBING PLAN - AREA A

#### EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS

Project Number  
**CSI-112**  
Building Number  
1

CENTRAL  
ARKANSAS  
VETERANS AFFAIRS  
HEALTHCARE  
SYSTEM



Location  
LITTLE ROCK, ARKANSAS

Date  
2015.03.06

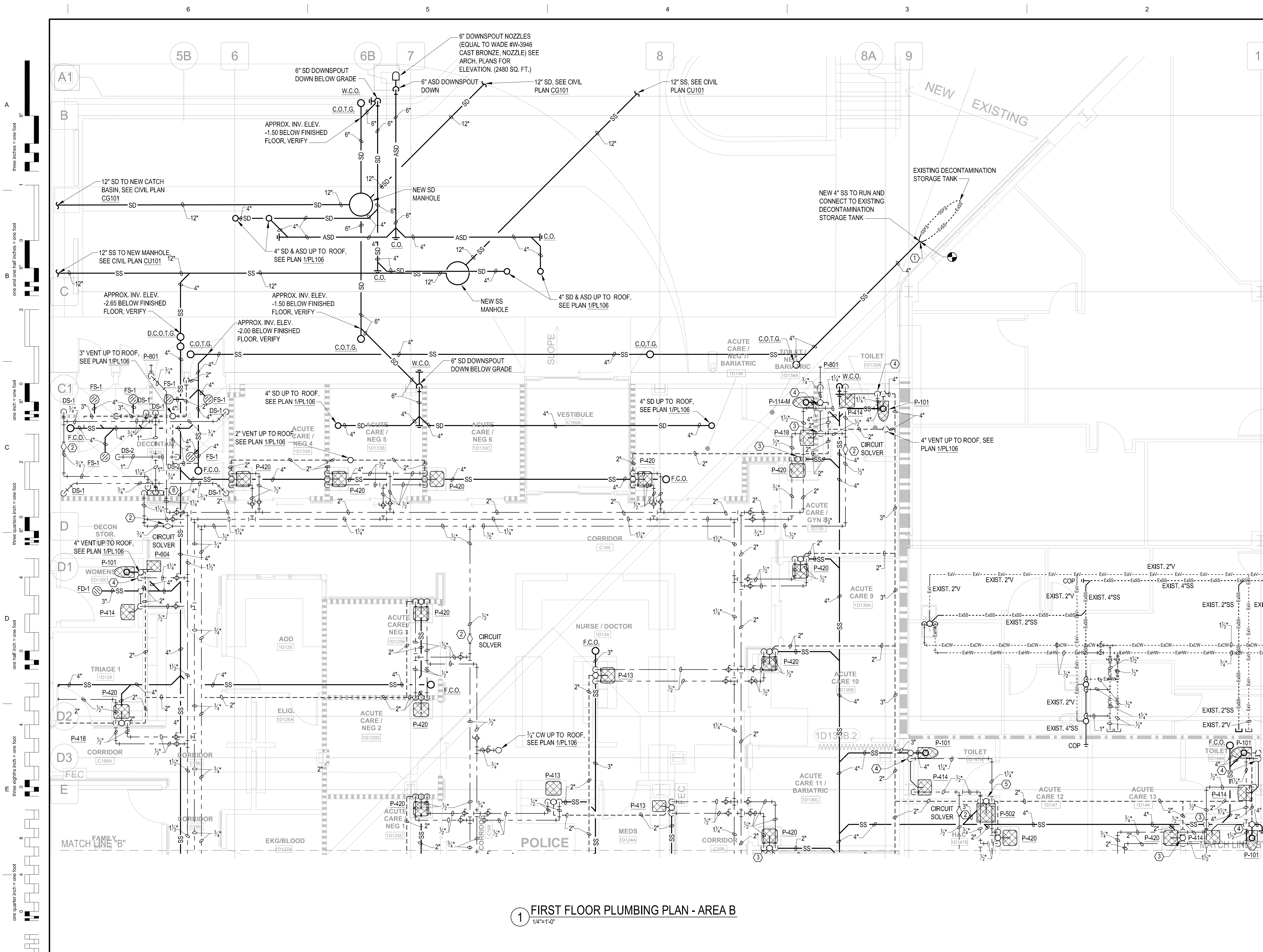
Drawn  
SMITH

Checked  
SEAY

Drawing Number  
**PL101**

Dwg. 79 of 127





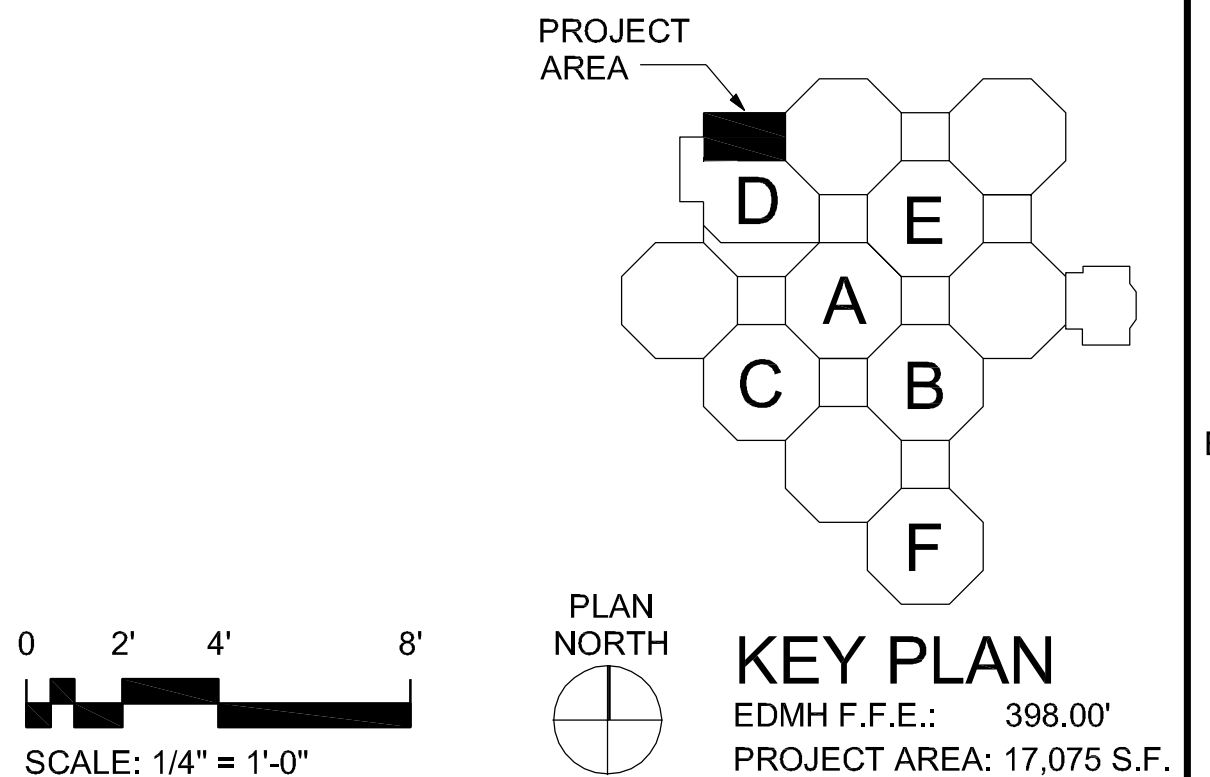
**KEYED NOTES**

1. CONNECT NEW 4" SANITARY SEWER (SS) PIPE TO EXISTING DECONTAMINATION STORAGE TANK AT THIS POINT WITH A NEW 4" X 4" UNION/COUPLING FITTING.
2. PROVIDE THERMO-OMEGA-TECH #CIRCUIT SOLVER THERMOSTATIC CIRCUIT SETTER BALANCING VALVE, (SAME SIZE AS LINE, 5" F DELTA T-100°F AND 10" F DELTA T-120°F HW), PROVIDE FULL PORT BALL VALVE AND UNION IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE BALANCING VALVE, SEE DETAIL 2/P-502.
3. RUN 1/2" COLD WATER (CW) AND/OR HOT WATER (HW) PIPE DOWN IN WALL AND PROVIDE WITH 1/2" CW AND/OR HW PIPE PIPE STUB-OUTS TO SERVE LAVATORY AND/OR ELECTRIC WATER COOLER.
4. RUN 1/4" COLD WATER (CW) PIPE DOWN IN WALL AND PROVIDE WITH 1" CW PIPE STUB-OUT TO SERVE WATER CLOSET AND 1/2" CW PIPE STUB-OUTS TO SERVE LAVATORY AND/OR ELECTRIC WATER COOLER.
5. RUN 1/2" COLD WATER (CW) AND HOT WATER (HW) PIPE DOWN IN WALL AND PROVIDE WITH 1/2" CW AND 1/2" HW PIPE STUB-OUTS TO MOP SINK.
6. RUN 1/4" COLD WATER (CW) PIPE DOWN TO WATER TEMPERING VALVE (WTV-1), SEE DETAIL 7/P-502.

**GENERAL NOTES**

1. SEE SHEET P1001 FOR ADDITIONAL NOTES AND LEGEND.
2. THE CONTRACTOR SHALL INSTALL AND CONNECT NEW PLUMBING SERVICE (SANITARY SEWER (SS), STORM SEWER (SD), VENT AND DOMESTIC WATER PIPING) TO EXISTING. THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS IMPACTED BY NEW CONSTRUCTION WORK.
3. NEW SANITARY SEWER (SS), STORM SEWER (SD), VENT, DOMESTIC WATER PIPING AT CEILING STRUCTURE SHALL BE COORDINATED WITH ALL EXISTING CONDITION AND OTHER TRADES IN THIS AREA, AND SHALL NOT BE ROUTED OVER ANY ELECTRICAL AND DATA ROOMS.
4. ALL DOMESTIC WATER PIPING SHALL BE INSULATED INSIDE OF BUILDING.
5. PROVIDE SHOCK ARRESTORS PER P.D.I. (PISTOL TYPE) AT EACH FIXTURE GROUP AND ISOLATED FIXTURES.
6. ALL FIXTURES SHALL BE VENTED PER ALL STATE AND LOCAL CODES AND JURISDICTIONS.
7. ALL FAUCETS, WALL SUPPLIES AND STOPS FOR NEW PLUMBING FIXTURES (LAVATORIES, SINKS AND ELECTRIC WATER COOLER) TO BE "LEAD FREE" PER THE "SAFE DRINKING WATER ACT" AND NSF 61 AND NSF 372.

! CONNECTION OF NEW PIPING TO EXISTING MAY CAUSE SIGNIFICANT OUTGAS THAT MUST BE COORDINATED WITH THE USER. COORDINATE ALL WORK WITH THE PHASING PLAN. THE VA WILL PROVIDE TEMPORARY MEDICAL GAS SERVICE, BUT OTHER TEMPORARY UTILITIES MUST BE PROVIDED DUE TO THE PHASING PROCESS.



**1 FIRST FLOOR PLUMBING PLAN - AREA B**  
1/4"=1'-0"

**CONSULTANTS:**

**CIVIL:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900

**MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900

**ARCHITECT/ENGINEERS:**



BES DESIGN/BUILD, LLC  
766 Middle St, Fairhope, AL 36532  
Phone: 251.990.5778  
Fax: 251.990.3716

**Drawing Title**  
FIRST FLOOR PLUMBING PLAN - AREA B

**Approved:** Project Director

**Project Title**  
EMERGENCY DEPARTMENT  
MENTAL HEALTH  
IMPROVEMENTS

**Location**  
LITTLE ROCK, ARKANSAS

**Date**  
2015.03.06

**Drawn**  
SMITH

**Checked**  
SEAY

**Project Number**  
CSI-112

**Building Number**  
1

**Drawing Number**  
PL102

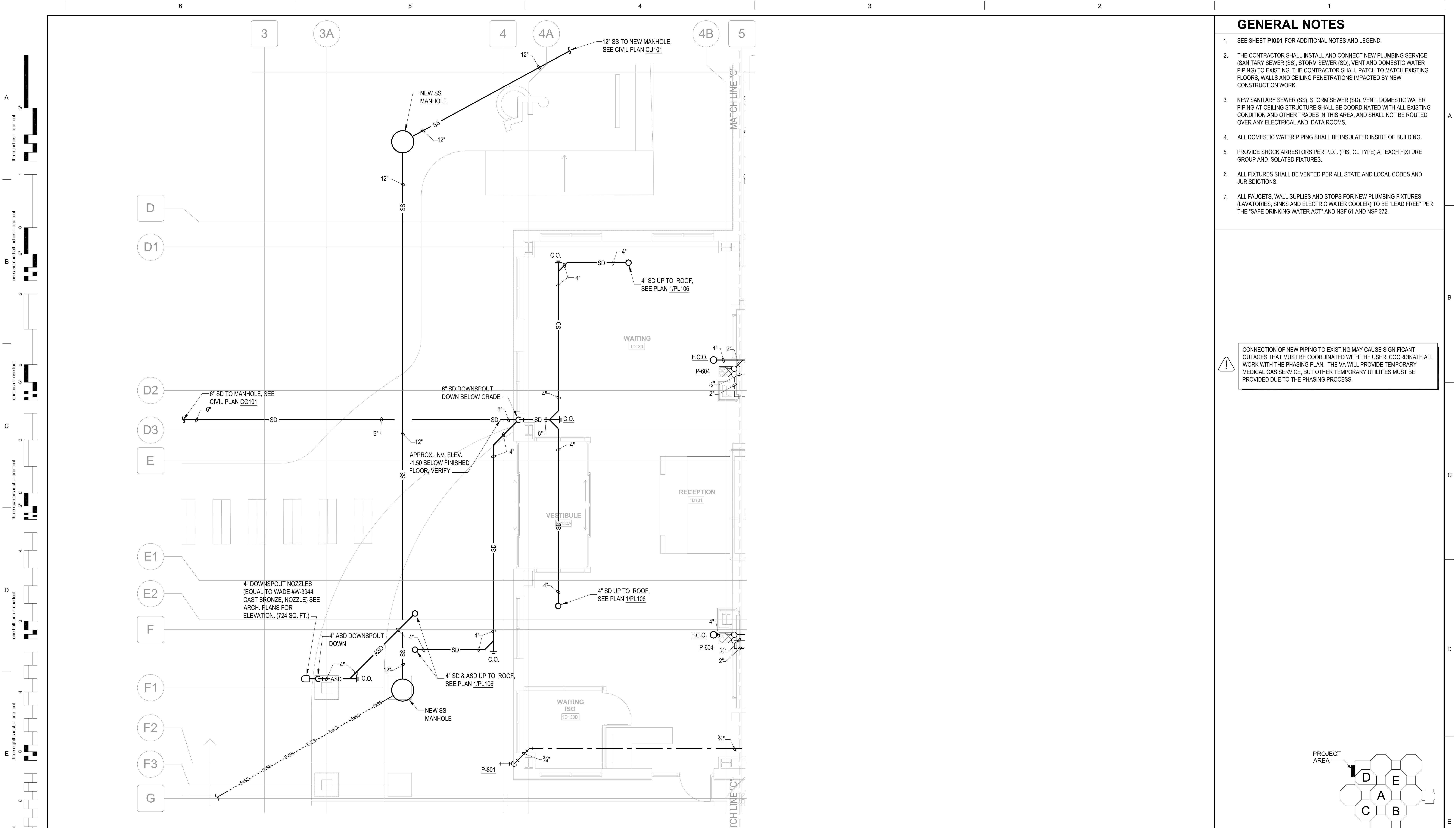
**Dwg.** 80 of 127

**CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM**



three eighths inch = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one eighth inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



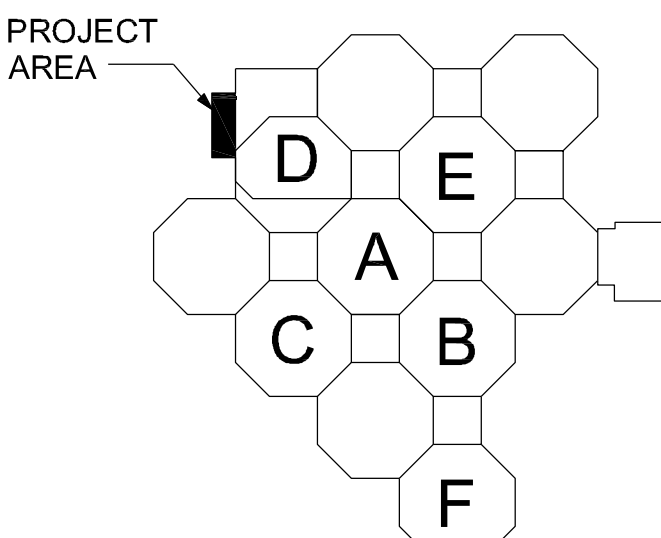


1 FIRST FLOOR PLUMBING PLAN - AREA C  
1/4"=1'-0"

### GENERAL NOTES

- SEE SHEET **PI001** FOR ADDITIONAL NOTES AND LEGEND.
- THE CONTRACTOR SHALL INSTALL AND CONNECT NEW PLUMBING SERVICE (SANITARY SEWER (SS), STORM SEWER (SD), VENT AND DOMESTIC WATER PIPING) TO EXISTING. THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS IMPACTED BY NEW CONSTRUCTION WORK.
- NEW SANITARY SEWER (SS), STORM SEWER (SD), VENT, DOMESTIC WATER PIPING AT CEILING STRUCTURE SHALL BE COORDINATED WITH ALL EXISTING CONDITION AND OTHER TRADES IN THIS AREA, AND SHALL NOT BE ROUTED OVER ANY ELECTRICAL AND DATA ROOMS.
- ALL DOMESTIC WATER PIPING SHALL BE INSULATED INSIDE OF BUILDING.
- PROVIDE SHOCK ARRESTORS PER P.D.I. (PISTOL TYPE) AT EACH FIXTURE GROUP AND ISOLATED FIXTURES.
- ALL FIXTURES SHALL BE VENTED PER ALL STATE AND LOCAL CODES AND JURISDICTIONS.
- ALL FAUCETS, WALL SUPPLIES AND STOPS FOR NEW PLUMBING FIXTURES (LAVATORIES, SINKS AND ELECTRIC WATER COOLER) TO BE "LEAD FREE" PER THE "SAFE DRINKING WATER ACT" AND NSF 61 AND NSF 372.

! CONNECTION OF NEW PIPING TO EXISTING MAY CAUSE SIGNIFICANT OUTAGES THAT MUST BE COORDINATED WITH THE USER. COORDINATE ALL WORK WITH THE PHASING PLAN. THE VA WILL PROVIDE TEMPORARY MEDICAL GAS SERVICE, BUT OTHER TEMPORARY UTILITIES MUST BE PROVIDED DUE TO THE PHASING PROCESS.

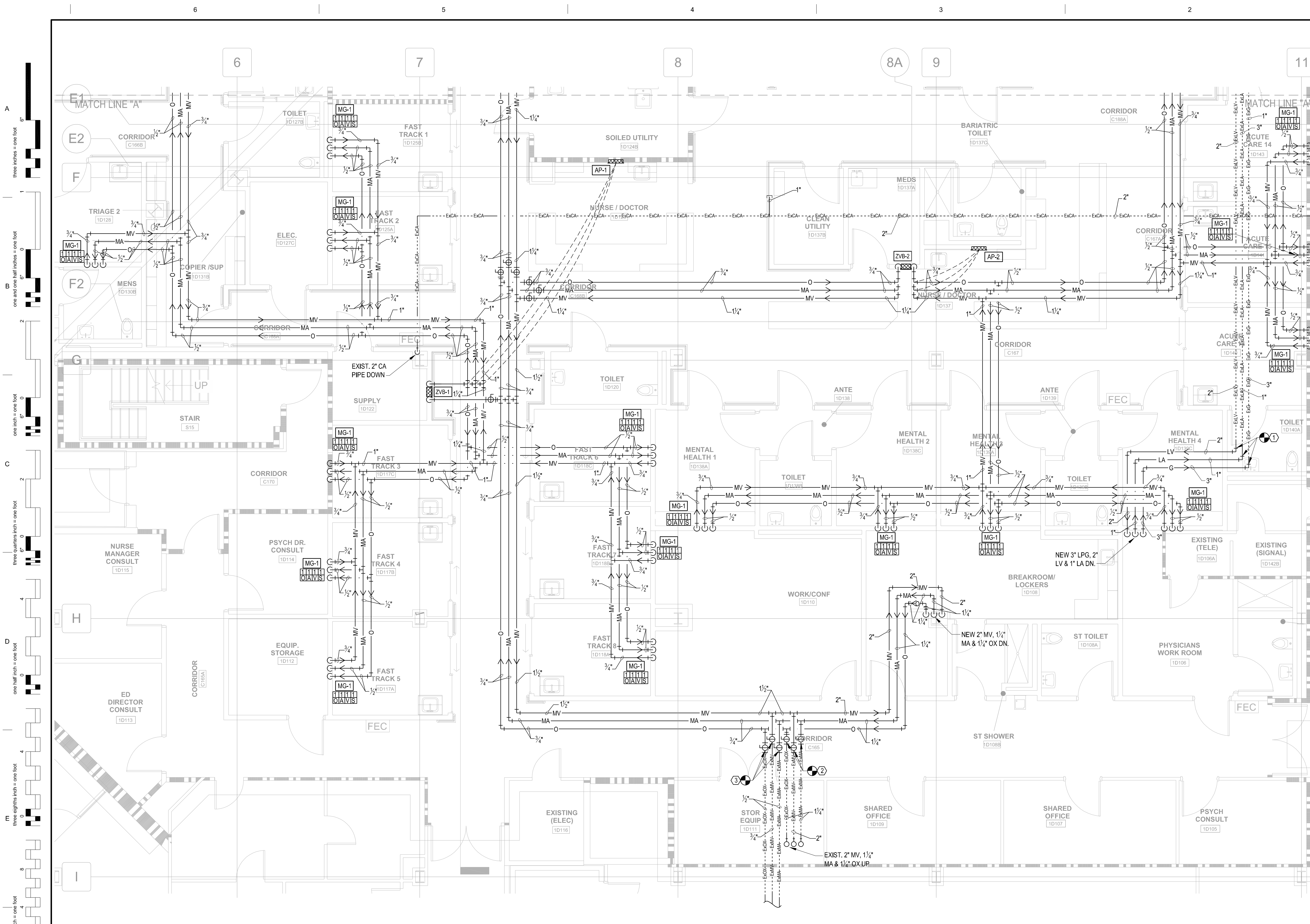


0 2' 4' 8'  
SCALE: 1/4" = 1'-0"  
PLAN NORTH  
KEY PLAN  
EDMH F.F.E.: 398.00'  
PROJECT AREA: 17,075 S.F.

### CONSTRUCTION DOCUMENTS SUBMISSION FULLY SPRINKLERED

<b>CONSULTANTS:</b> <b>CIVIL:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900 <b>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		<b>ARCHITECT/ENGINEERS:</b>  BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Drawing Title <b>FIRST FLOOR PLUMBING PLAN - AREA C</b>		Project Title <b>EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS</b>		Project Number <b>CSI-112</b> Building Number 1		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM 	
Revisions: Date				Approved: Project Director		Location LITTLE ROCK, ARKANSAS		Drawing Number <b>PL103</b> Dwg. 81 of 127			
Date						Date 2015.03.06		Drawn SMITH		Checked SEAY	



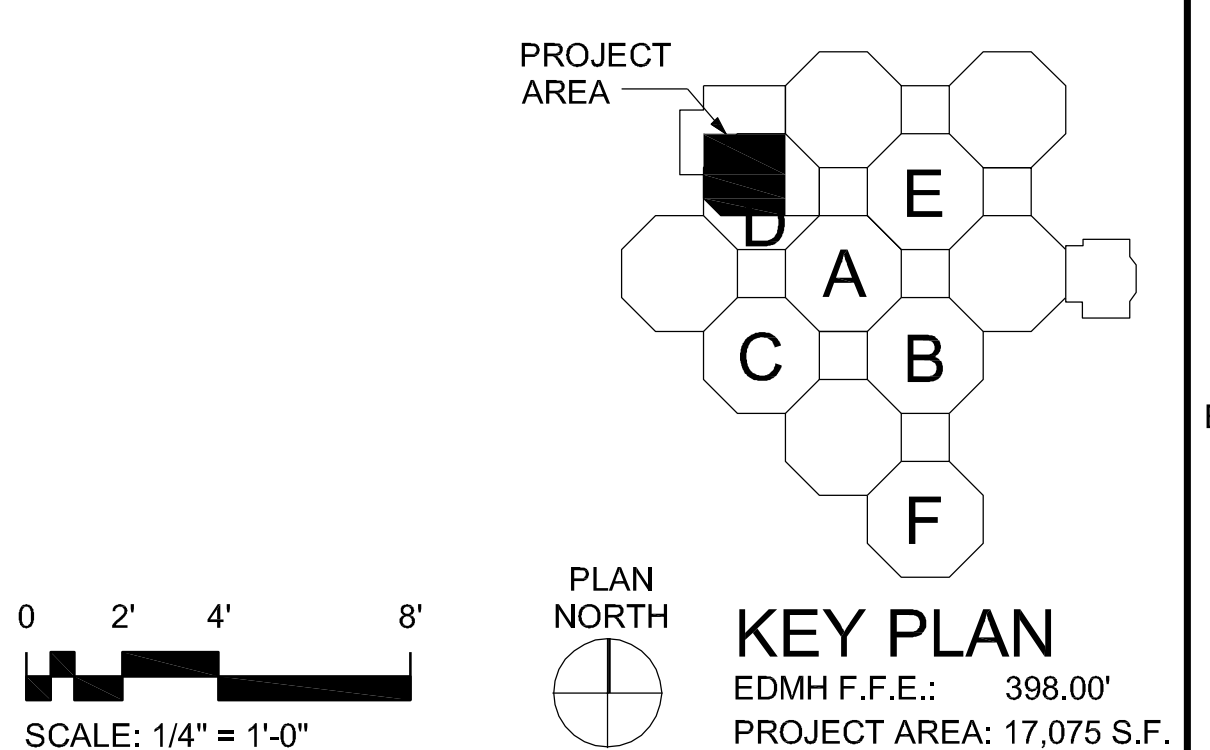


- ### KEYED NOTES
- CONNECT NEW 3" NATURAL GAS (G), 2" LABORATORY VACUUM (LV) & 1" LABORATORY AIR (LA) PIPE TO EXISTING 3" EXG, 2" EXLV AND 1" EXLA PIPING ABOVE CEILING AT THIS POINT. PROVIDE WITH NEW 3" X 3" 90° BEND/ELBOW FITTING FOR G PIPE, 2" X 2" 90° BEND/ELBOW FITTING FOR LV PIPE AND 1" X 1" 90° BEND/ELBOW FITTING FOR LA PIPE.
  - CONNECT NEW 2" MEDICAL VACUUM (MV), 1/2" MEDICAL AIR (MA) & 1/2" MEDICAL OXYGEN (O) PIPE TO EXISTING 2" EXMV, 1/2" EXMA AND 1/2" EXOX PIPING ABOVE CEILING AT THIS POINT IN CORRIDOR WITH NEW 2" LOCKABLE BALL VALVE FOR MV PIPE AND NEW 1/2" LOCKABLE BALL VALVES FOR MA AND O PIPING.
  - CONNECT NEW 3/4" MEDICAL VACUUM (MV), 1/2" MEDICAL AIR (MA) & 1/2" MEDICAL OXYGEN (O) PIPE TO EXISTING 3/4" EXMV, 1/2" EXMA AND 1/2" EXOX PIPING ABOVE CEILING AT THIS POINT IN CORRIDOR WITH A NEW 3/4" LOCKABLE BALL VALVE FOR MV PIPE AND NEW 1/2" LOCKABLE BALL VALVES FOR MA AND O PIPING.

- ### GENERAL NOTES
- SEE SHEET P1001 FOR ADDITIONAL NOTES AND LEGEND.
  - ALL EXISTING EQUIPMENT, PIPING, ETC. ARE BASED ON AS-BUILT DRAWINGS, VISUAL OBSERVATION BY A/E AND LITTLE ROCK VA HOSPITAL STAFF PERSONNEL. CONTRACTOR TO VERIFY LOCATION AND MAKE PROVISIONS, SHOULD THERE BE ANY CONFLICTS OR VARIATIONS.
  - THE CONTRACTOR SHALL CONNECT NEW MEDICAL GAS SERVICES TO EXISTING. THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS.
  - ALL MEDICAL GAS WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NFPA 99 AND PROJECT SPECIFICATIONS.
  - ALL SERVICE BALL VALVES TEE OFF OF MAIN BRANCH LINES AND ZONE VALVE BOXES SHALL BE EQUIPPED WITH LOCKABLE HANDLES.
  - CONTRACTOR SHALL PROVIDE CERTIFICATION FOR NEW MEDICAL GAS PIPING.
  - CONTRACTOR SHALL ALSO PROVIDE CERTIFICATION FOR ALL MEDICAL GAS PIPING (MEDICAL VACUUM, MEDICAL AIR AND OXYGEN) DOWN STREAM OF WHERE CONNECTIONS TO EXISTING PIPING ARE SHOWN.

- ### MEDICAL GAS LEGEND
- |       |  |
|-------|--|
|       | NEW MEDICAL GAS EQUIPMENT  |
| AP-1  | NEW ALARM PANEL - 1  |
| AP-2  | NEW ALARM PANEL - 2  |
| AP-3  | NEW ALARM PANEL - 3  |
| ZVB-1 | NEW ZONE VALVE BOX - 1 (1/4" VAC, 3/4" OXY & 3/4" AIR)             |
| ZVB-2 | NEW ZONE VALVE BOX - 2 (1/4" VAC, 3/4" OXY & 3/4" AIR)             |
| ZVB-3 | NEW ZONE VALVE BOX - 3 (1/4" VAC, 3/4" OXY & 3/4" AIR)             |
| MG-1  | NEW (1) 3/4" VAC, (1) SLIDE, (1) 1/2" AIR & (1) 1/2" OXY (IN WALL) |

CONNECTION OF NEW PIPING TO EXISTING MAY CAUSE SIGNIFICANT OUTAGES THAT MUST BE COORDINATED WITH THE USER. COORDINATE ALL WORK WITH THE PHASING PLAN. THE VA WILL PROVIDE TEMPORARY MEDICAL GAS SERVICE, BUT OTHER TEMPORARY UTILITIES MUST BE PROVIDED DUE TO THE PHASING PROCESS.



1 FIRST FLOOR MED. AND LAB. GAS PLAN- AREA A  
1/4"=1'-0"

**CONSULTANTS:**  
**CIVIL:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900  
**MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900



**ARCHITECT/ENGINEERS:**  
**BES DESIGN/BUILD**  
BES DESIGN/BUILD, LLC  
766 Middle St, Fairhope, AL 36532  
Phone: 251.990.5778  
Fax: 251.990.3716

Drawing Title  
**FIRST FLOOR MED. AND LAB. GAS PLAN - AREA A**

Approved: Project Director

Project Title  
**EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS**

Location  
**LITTLE ROCK, ARKANSAS**

Date  
**2015.03.06**

Project Number  
**CSI-112**

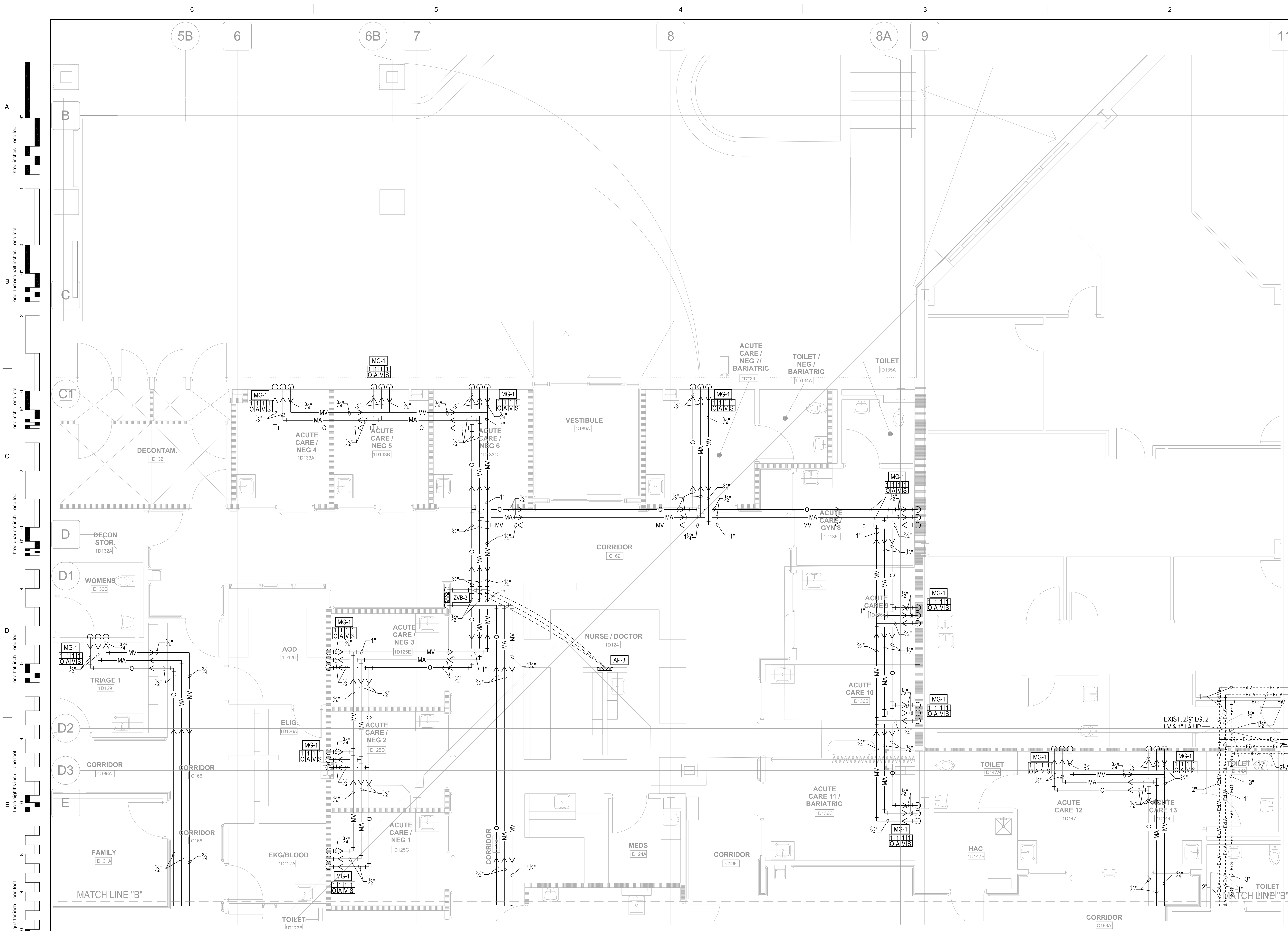
Building Number  
**1**

Drawing Number  
**PL104**

**CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM**





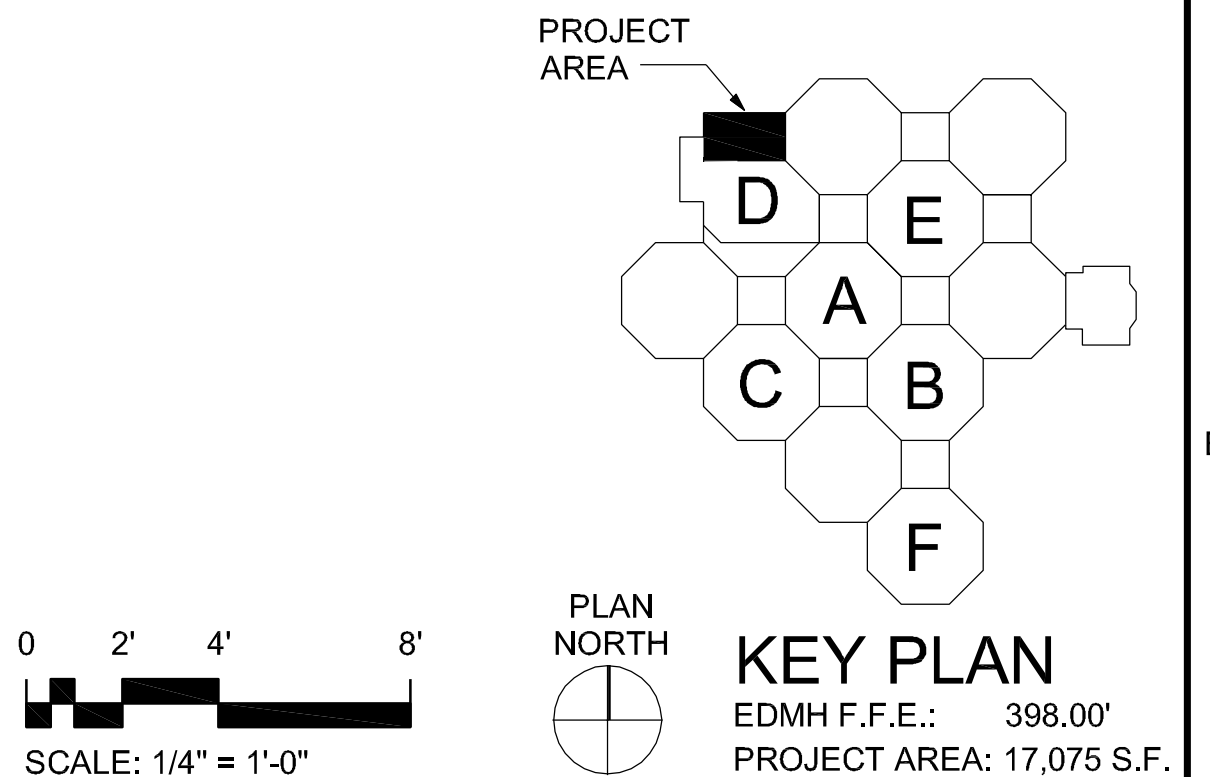


- ### GENERAL NOTES
- SEE SHEET **PL1001** FOR ADDITIONAL NOTES AND LEGEND.
  - ALL EXISTING EQUIPMENT, PIPING, ETC. ARE BASED ON AS-BUILT DRAWINGS, VISUAL OBSERVATION BY A/E, AND LITTLE ROCK VA HOSPITAL STAFF PERSONNEL. CONTRACTOR TO VERIFY LOCATION AND MAKE PROVISIONS, SHOULD THERE BE ANY CONFLICTS OR VARIATIONS.
  - THE CONTRACTOR SHALL CONNECT NEW MEDICAL GAS SERVICES TO EXISTING. THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS.
  - ALL MEDICAL GAS WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NFPA 99 AND PROJECT SPECIFICATIONS.
  - ALL SERVICE BALL VALVES TEE OFF OF MAIN BRANCH LINES AND ZONE VALVE BOXES SHALL BE EQUIPPED WITH LOCKABLE HANDLES.
  - CONTRACTOR SHALL PROVIDE CERTIFICATION FOR NEW MEDICAL GAS PIPING.
  - CONTRACTOR SHALL ALSO PROVIDE CERTIFICATION FOR ALL MEDICAL GAS PIPING (MEDICAL VACUUM, MEDICAL AIR AND OXYGEN) DOWN STREAM OF WHERE CONNECTIONS TO EXISTING PIPING ARE SHOWN.

### MEDICAL GAS LEGEND

	NEW MEDICAL GAS EQUIPMENT
	NEW ALARM PANEL - 1
	NEW ALARM PANEL - 2
	NEW ALARM PANEL - 3
	NEW ZONE VALVE BOX - 1 (1 1/2" VAC, 3/4" OXY & 3/4" AIR)
	NEW ZONE VALVE BOX - 2 (1 1/2" VAC, 3/4" OXY & 3/4" AIR)
	NEW ZONE VALVE BOX - 3 (1 1/2" VAC, 3/4" OXY & 3/4" AIR)
	NEW (1) 3/4" VAC, (1) SLIDE, (1) 1/2" AIR & (1) 1/2" OXY (IN WALL)

CONNECTION OF NEW PIPING TO EXISTING MAY CAUSE SIGNIFICANT OUTAGES THAT MUST BE COORDINATED WITH THE USER. COORDINATE ALL WORK WITH THE PHASING PLAN. THE VA WILL PROVIDE TEMPORARY MEDICAL GAS SERVICE, BUT OTHER TEMPORARY UTILITIES MUST BE PROVIDED DUE TO THE PHASING PROCESS.



1 FIRST FLOOR MED. AND LAB. GAS PLAN- AREA B  
1/4"=1'-0"

**CONSULTANTS:**  
**CIVIL:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900  
**MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:**  
CROMWELL  
101 SOUTH SPRING STREET  
LITTLE ROCK, AR 72201  
501.372.2900

**ARCHITECT/ENGINEERS:**  
  
BES DESIGN/BUILD, LLC  
766 Middle St, Fairhope, AL 36532  
Phone: 251.990.5778  
Fax: 251.990.3716

Drawing Title  
**FIRST FLOOR MED. AND LAB. GAS PLAN - AREA B**  
Approved: Project Director

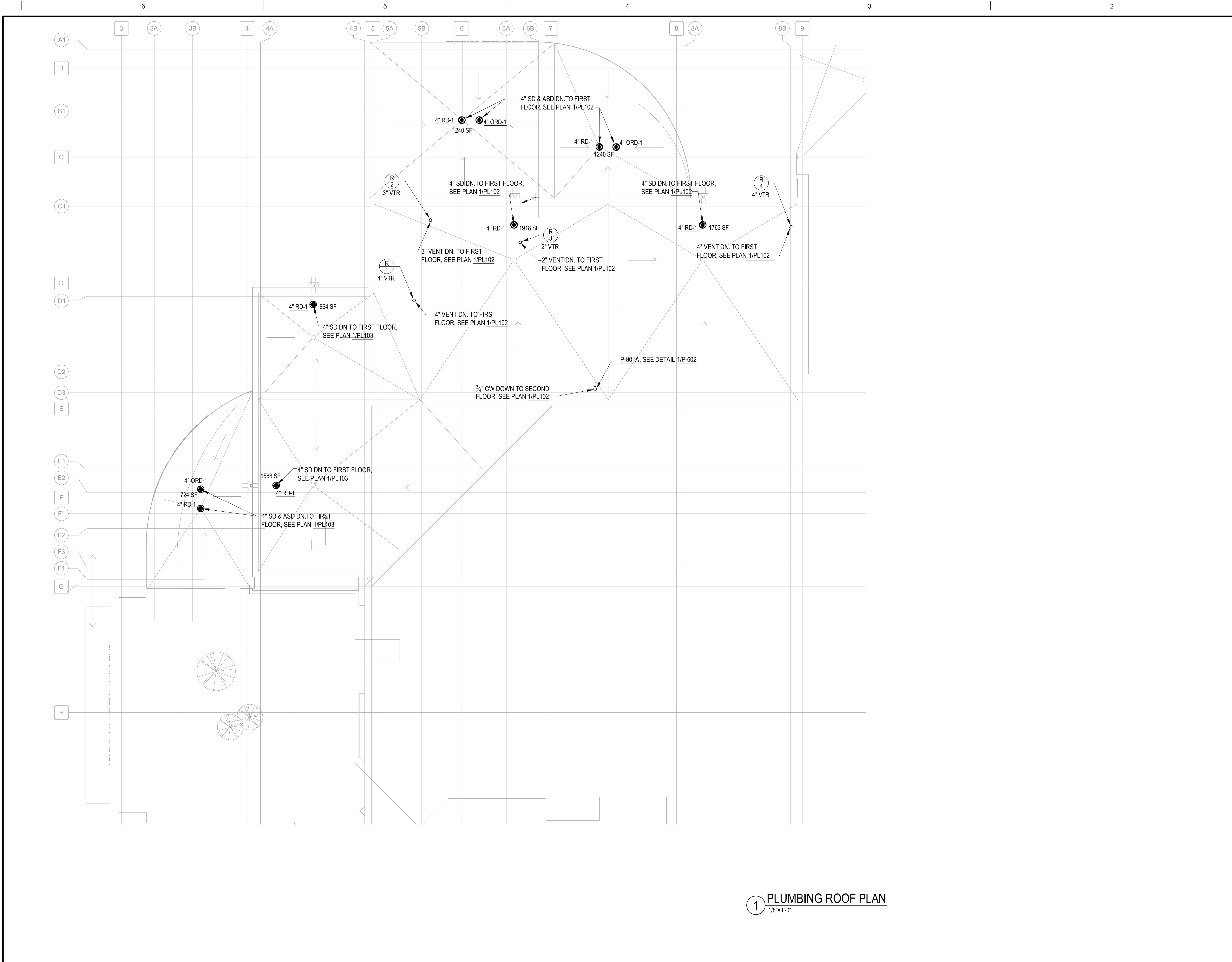
Project Title  
**EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS**  
Location  
LITTLE ROCK, ARKANSAS  
Date  
2015.03.06  
Drawn  
SMITH  
Checked  
SEAY  
Project Number  
CSI-112  
Building Number  
1  
Drawing Number  
PL105  
Dwg. 83 of 127

**CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM**

Scale bars and grid lines (A, B, C, D, E) are provided along the left margin of the drawing.



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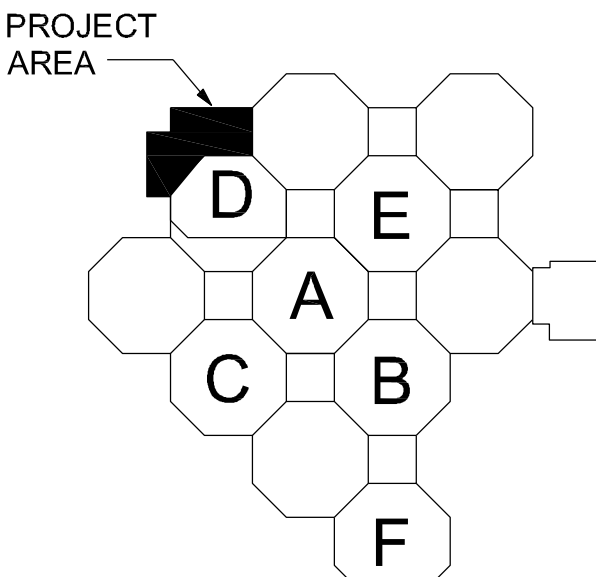


1 PLUMBING ROOF PLAN  
1/8"=1'-0"

## GENERAL NOTES

- SEE SHEET **PI001** FOR ADDITIONAL NOTES AND LEGEND.
- THE CONTRACTOR SHALL INSTALL AND CONNECT NEW PLUMBING SERVICE (SANITARY SEWER (SS), STORM SEWER (SD), VENT AND DOMESTIC WATER PIPING) TO EXISTING. THE CONTRACTOR SHALL PATCH TO MATCH EXISTING FLOORS, WALLS AND CEILING PENETRATIONS IMPACTED BY NEW CONSTRUCTION WORK.
- NEW SANITARY SEWER (SS), STORM SEWER (SD), VENT, DOMESTIC WATER PIPING AT CEILING STRUCTURE SHALL BE COORDINATED WITH ALL EXISTING CONDITION AND OTHER TRADES IN THIS AREA, AND SHALL NOT BE ROUTED OVER ANY ELECTRICAL AND DATA ROOMS.
- ALL DOMESTIC WATER PIPING SHALL BE INSULATED INSIDE OF BUILDING.
- PROVIDE SHOCK ARRESTORS PER P.D.I. (PISTOL TYPE) AT EACH FIXTURE GROUP AND ISOLATED FIXTURES.
- ALL FIXTURES SHALL BE VENTED PER ALL STATE AND LOCAL CODES AND JURISDICTIONS.
- ALL FAUCETS, WALL SUPPLIES AND STOPS FOR NEW PLUMBING FIXTURES (LAVATORIES, SINKS AND ELECTRIC WATER COOLER) TO BE "LEAD FREE" PER THE "SAFE DRINKING WATER ACT" AND NSF 61 AND NSF 372.

CONNECTION OF NEW PIPING TO EXISTING MAY CAUSE SIGNIFICANT OUTAGES THAT MUST BE COORDINATED WITH THE USER. COORDINATE ALL WORK WITH THE PHASING PLAN. THE VA WILL PROVIDE TEMPORARY MEDICAL GAS SERVICE, BUT OTHER TEMPORARY UTILITIES MUST BE PROVIDED DUE TO THE PHASING PROCESS.



0 4' 8' 16'  
SCALE: 1/8" = 1'-0"  
PLAN NORTH  
KEY PLAN  
EDMH F.F.E.: 398.00'  
PROJECT AREA: 17,075 S.F.

## CONSTRUCTION DOCUMENTS SUBMISSION FULLY SPRINKLERED

Revisions:		Date:		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM	
				CIVIL: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		BES DESIGN/BUILD		PLUMBING ROOF PLAN		EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		CSI-112	
								BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Approved: Project Director		Location LITTLE ROCK, ARKANSAS		Building Number 1	
										Date 2015.03.06		Drawn SMITH		Checked SEAY	
												Drawing Number PL106		Dwg. 84 of 127	



three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

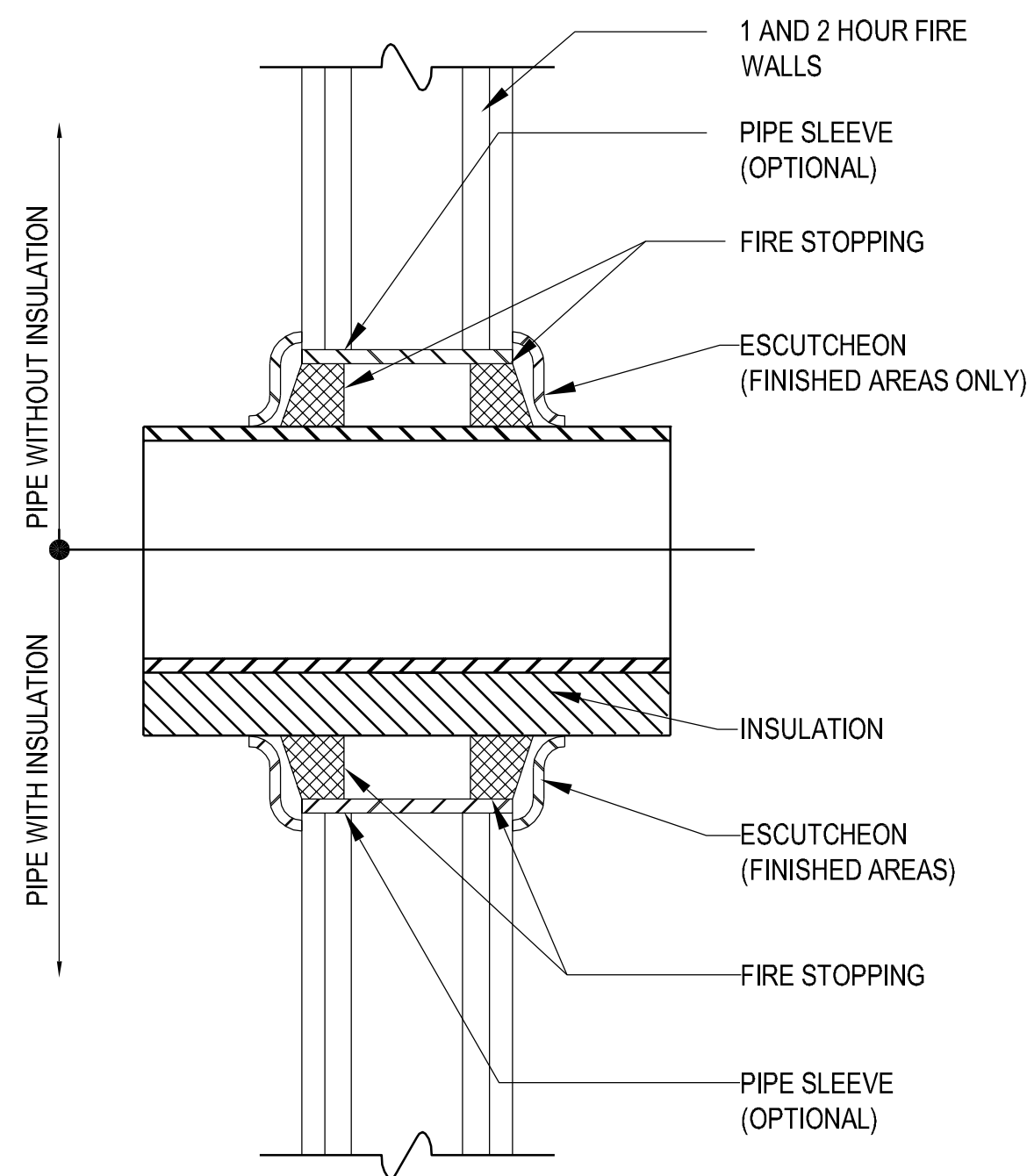
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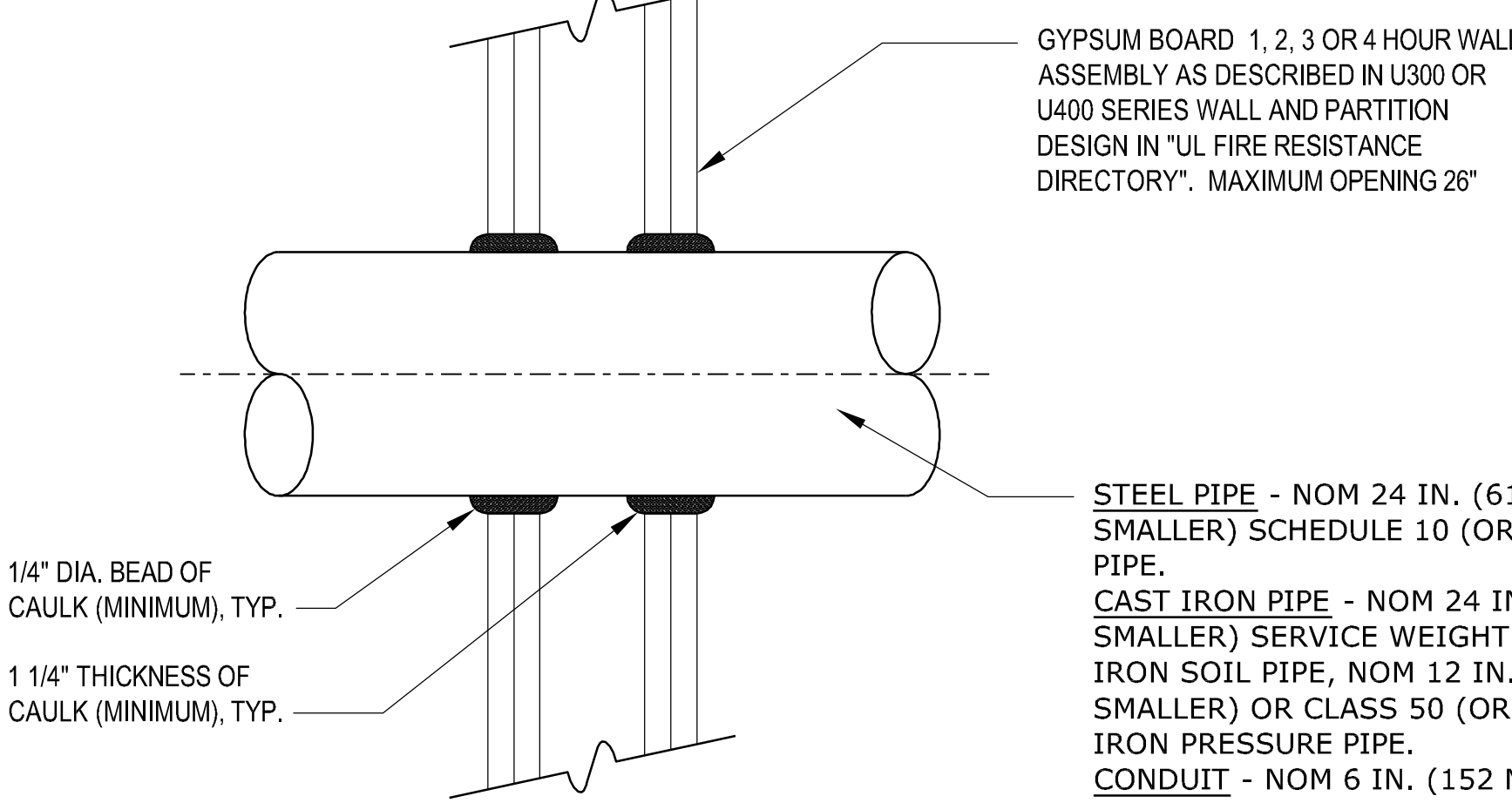
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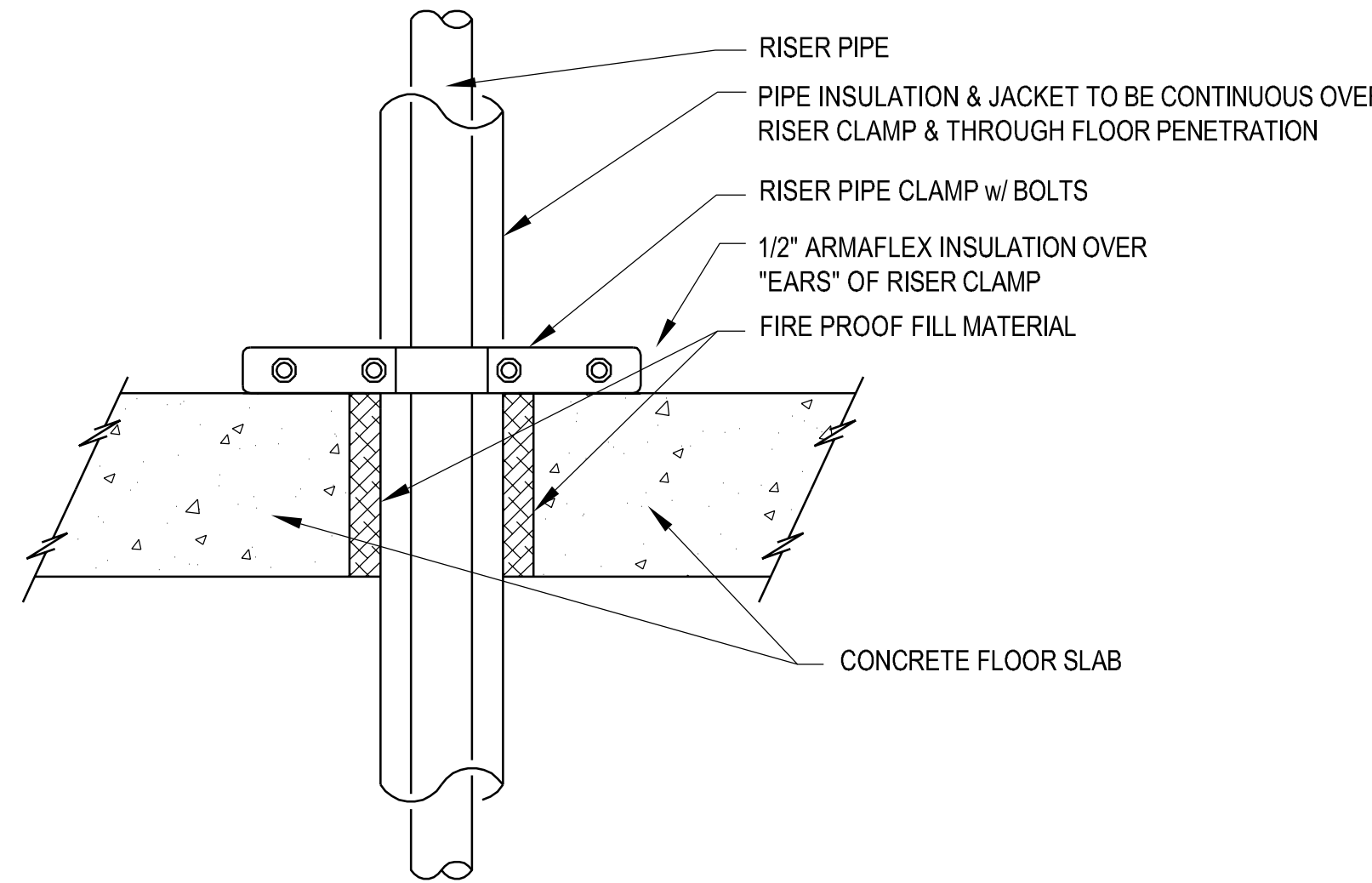
NOTE:  
1. FIRE STOPPING MATERIAL SHALL COMPLY WITH SECTION 07840 OF THE SPECIFICATIONS.  
2. THIS DETAIL REPRESENTS ONE MANUFACTURER'S RECOMMENDATION FOR A WALL TYPE. THE CONTRACTOR SHALL CONSULT THE FIRE STOPPING MATERIALS MANUFACTURER FOR SPECIFIC INFORMATION AND SPECIFIC INSTALLATION INSTRUCTIONS FOR THE WALLS AND PARTITIONS APPLICABLE TO THIS PROJECT.

4 INTERIOR PIPE THRU FIRE WALL  
NO SCALE

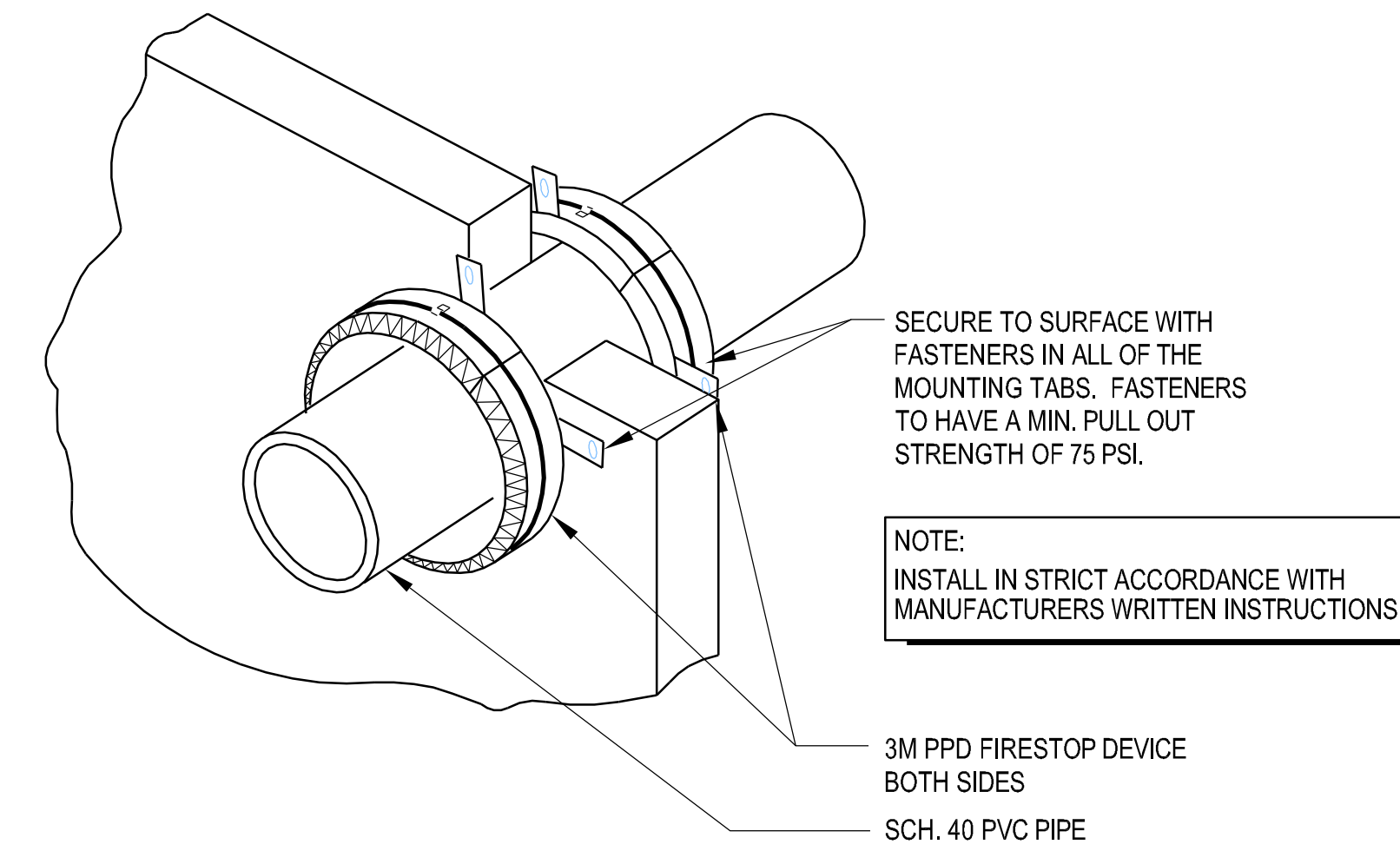


NOTE:  
1. FIRE STOPPING MATERIAL SHALL COMPLY WITH SECTION 07840 OF THE SPECIFICATIONS.  
2. THIS DETAIL REPRESENTS ONE MANUFACTURER'S RECOMMENDATION FOR A WALL TYPE. THE CONTRACTOR SHALL CONSULT THE FIRE STOPPING MATERIALS MANUFACTURER FOR SPECIFIC INFORMATION AND SPECIFIC INSTALLATION INSTRUCTIONS FOR THE WALLS AND PARTITIONS APPLICABLE TO THIS PROJECT.

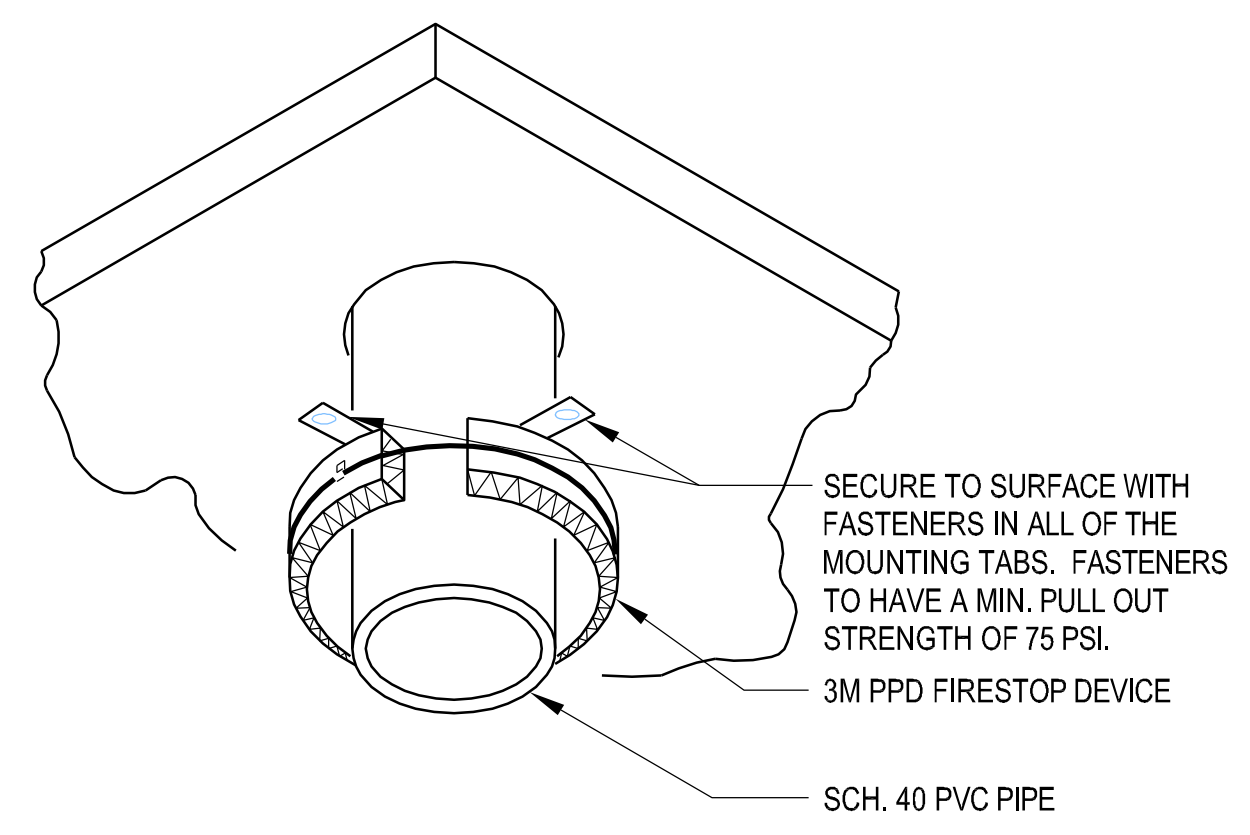
5 METALLIC PIPE PENETRATION THRU RATED GYPSUM WALL  
NO SCALE



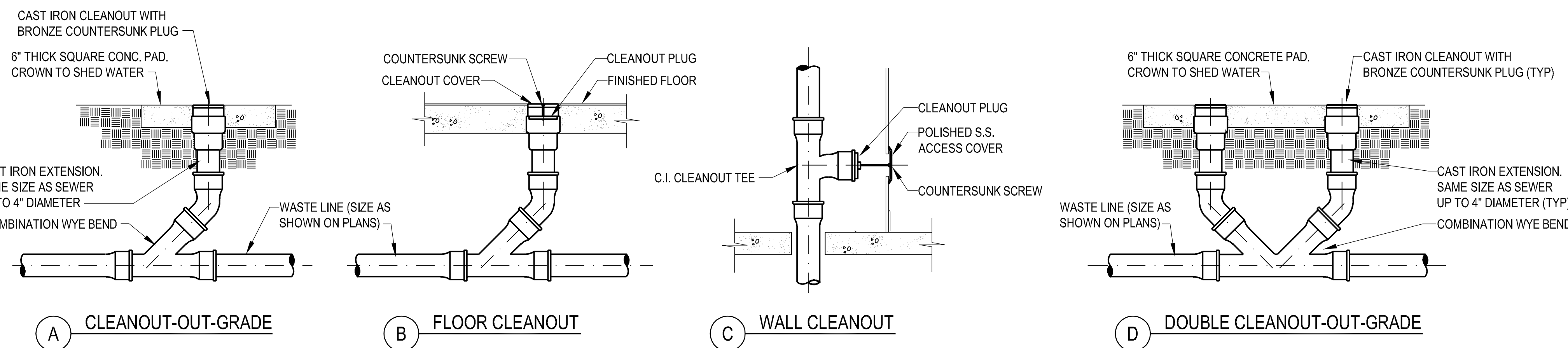
6 PIPE RISER INSULATION  
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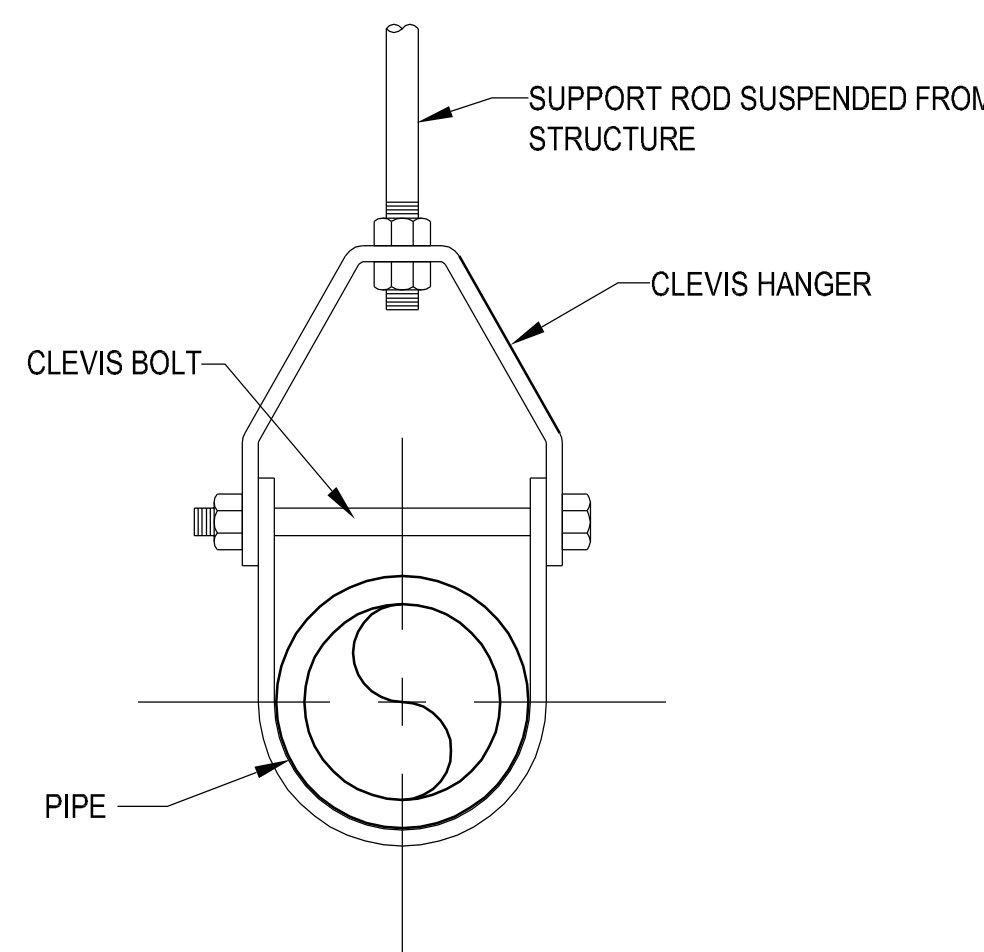
8 PVC PIPE THRU RATE WALL  
NO SCALE



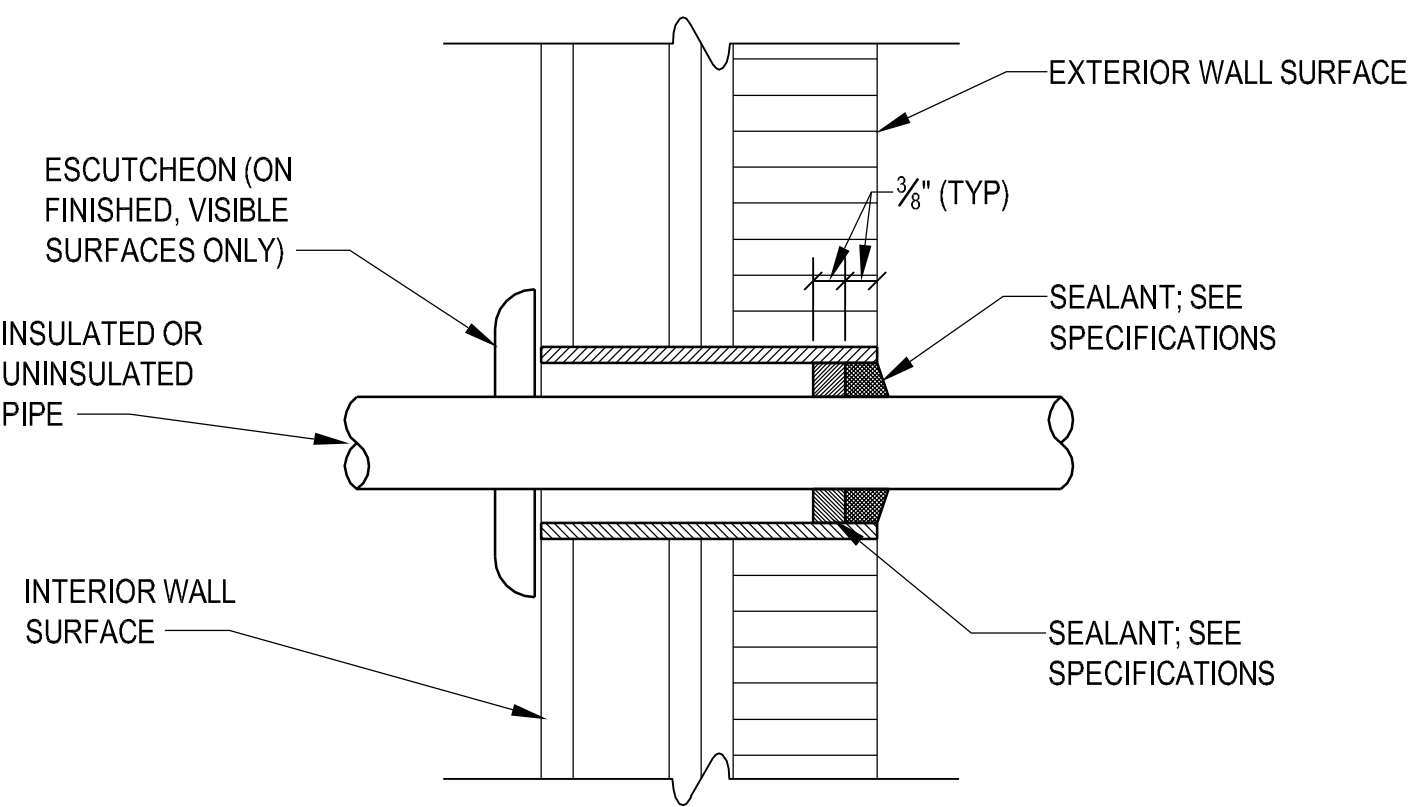
7 PVC PIPE THRU RATE CEILING  
NO SCALE



1 TYPICAL CLEANOUTS  
NO SCALE


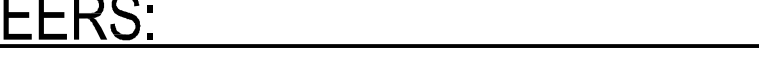



2 ADJUSTABLE CLEVIS HANGER  
NO SCALE



3 PIPE THRU EXTERIOR WALL  
NO SCALE

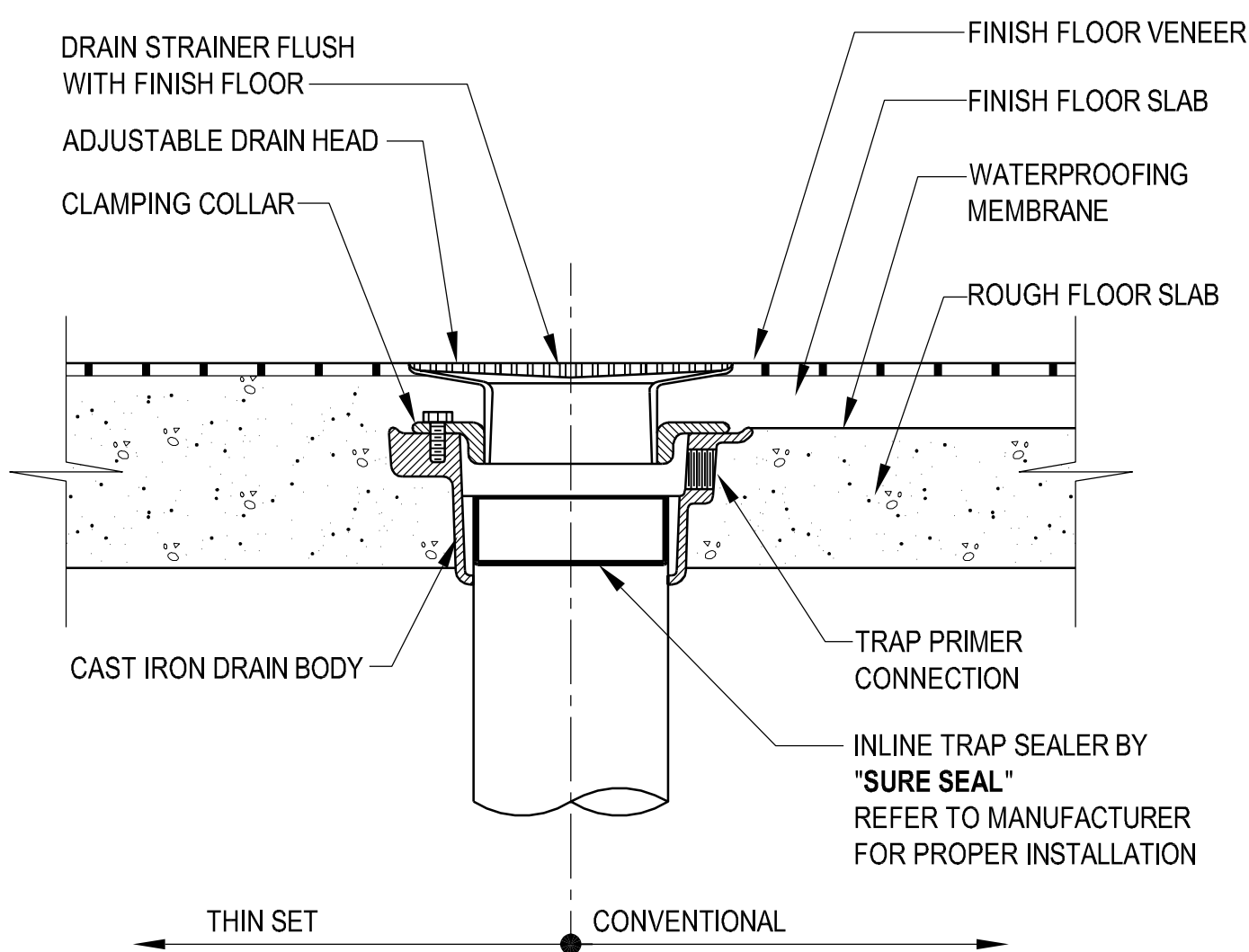
CONSTRUCTION DOCUMENTS SUBMISSION  
FULLY SPRINKLERED

		<b>CONSULTANTS:</b>				<b>ARCHITECT/ENGINEERS:</b>		<div>Drawing Title</div> <div>PLUMBING DETAILS</div>		<div>Project Title</div> <div>EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS</div>		<div>Project Number</div> <div>CSI-112</div>		<div>CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM</div>	
		<div>CIVIL:</div> <div>CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900</div>		<div>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</div> <div>CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900</div>		<div></div>		<div></div> <div>BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716</div>		<div>Location</div> <div>LITTLE ROCK, ARKANSAS</div>		<div>Drawing Number</div> <div>PL501</div>			
<div>Revisions:</div>		<div>Date</div>				<div>Approved: Project Director</div>		<div>Date</div> <div>2015.03.06</div>		<div>Drawn</div> <div>SMITH</div>		<div>Checked</div> <div>SEAY</div>		<div>Dwg. 85 of 127</div>	
														<div> Department of Veterans Affairs</div>	

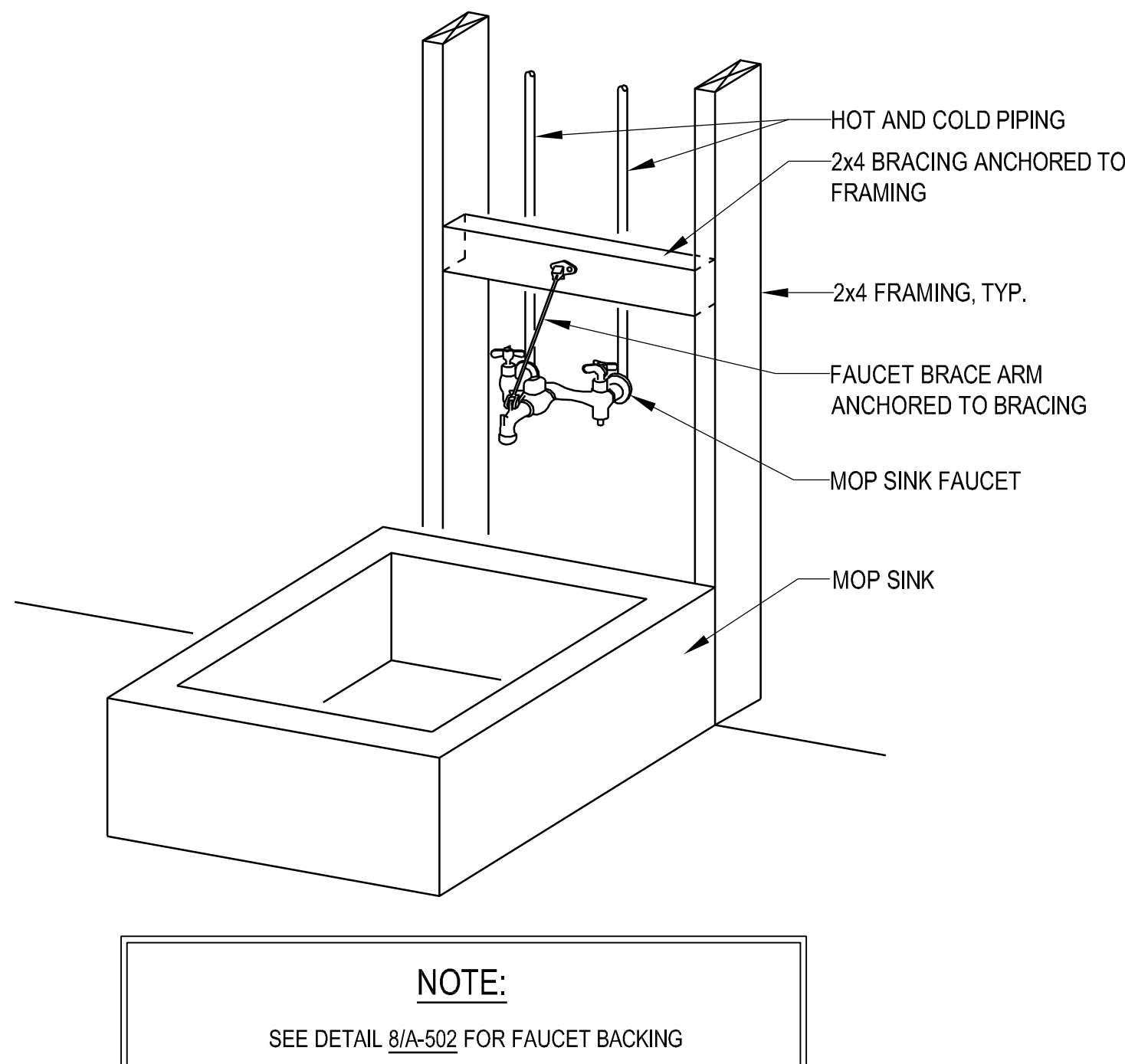


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one and one half inches = one foot  
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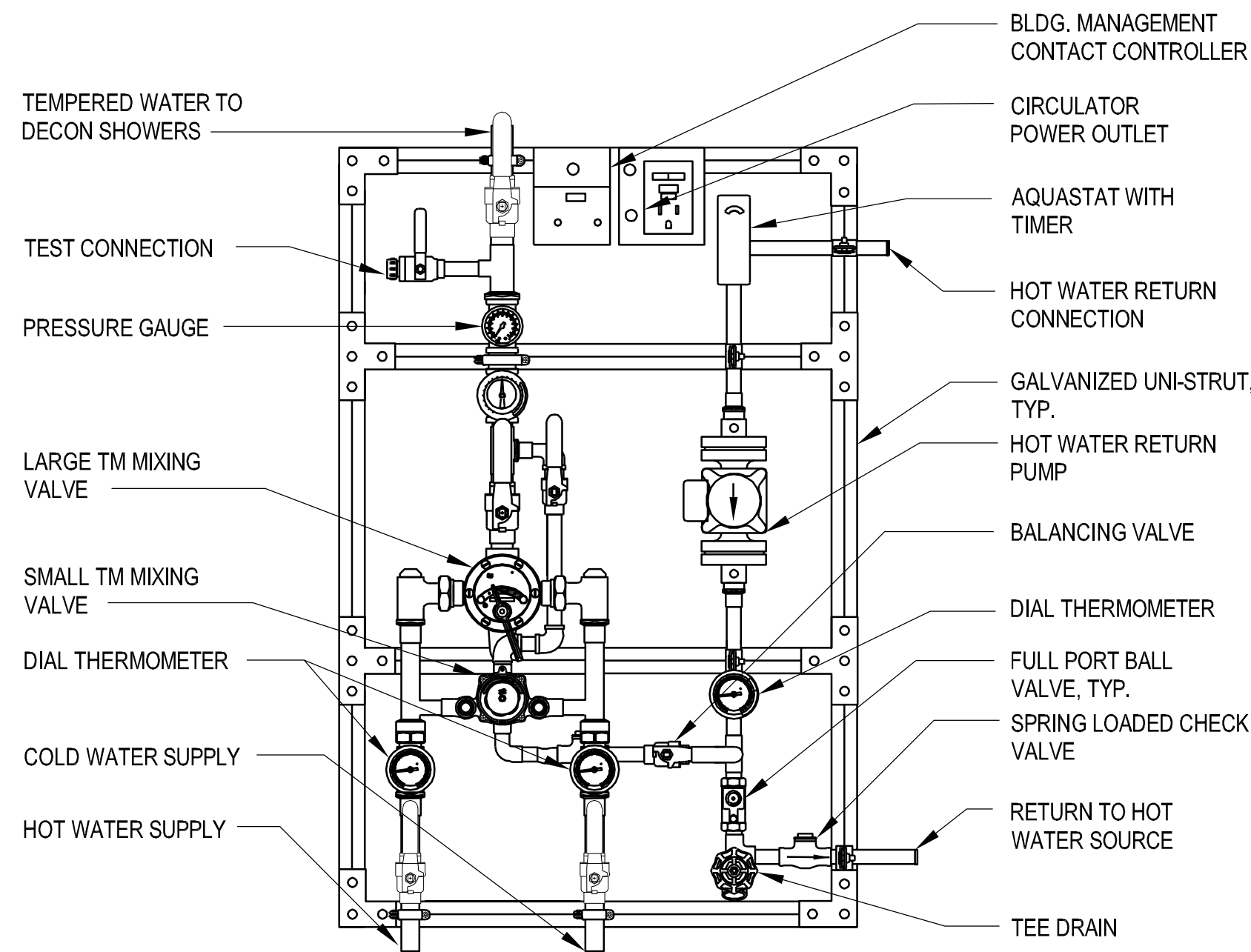
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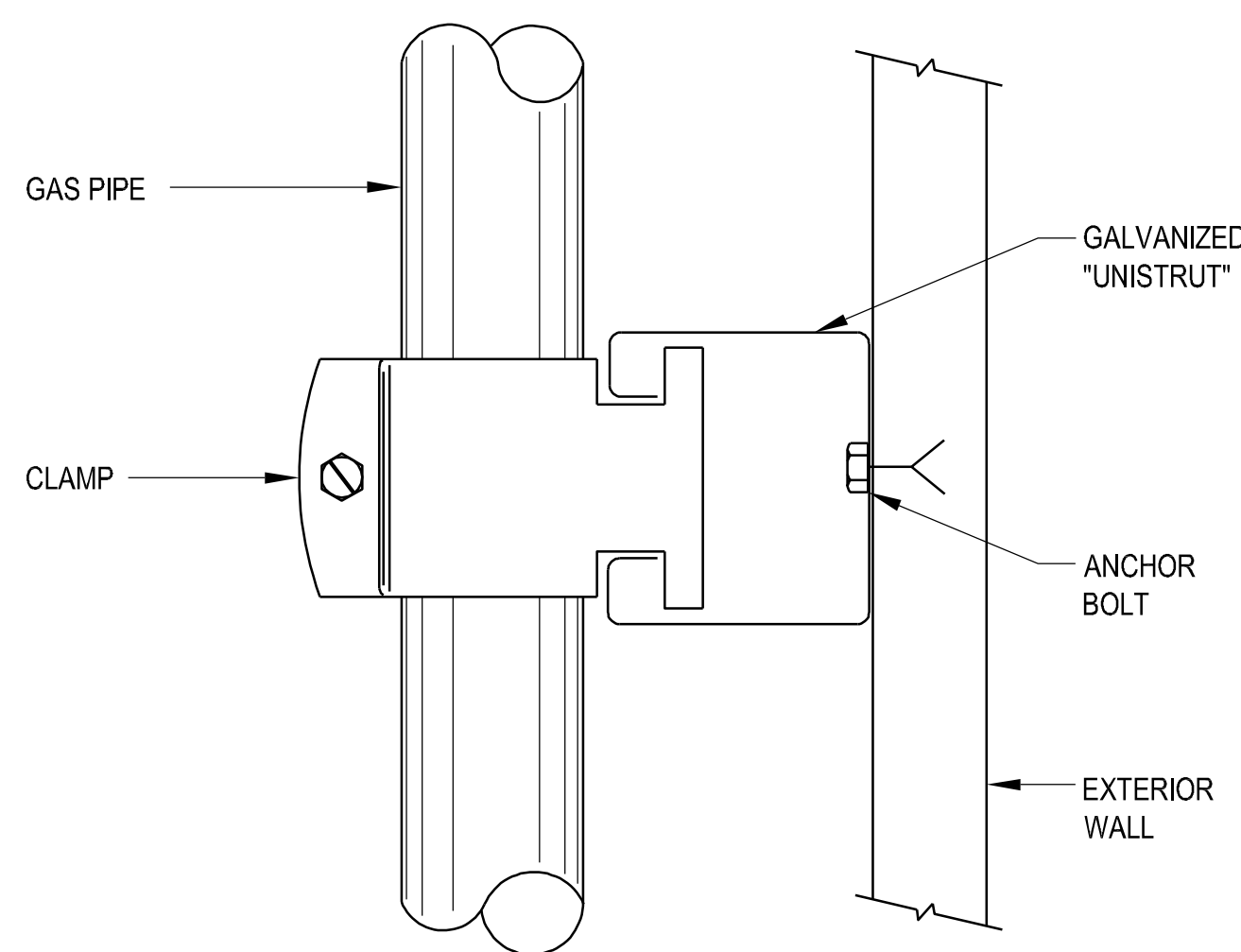
5 FLOOR DRAIN DETAIL  
NO SCALE



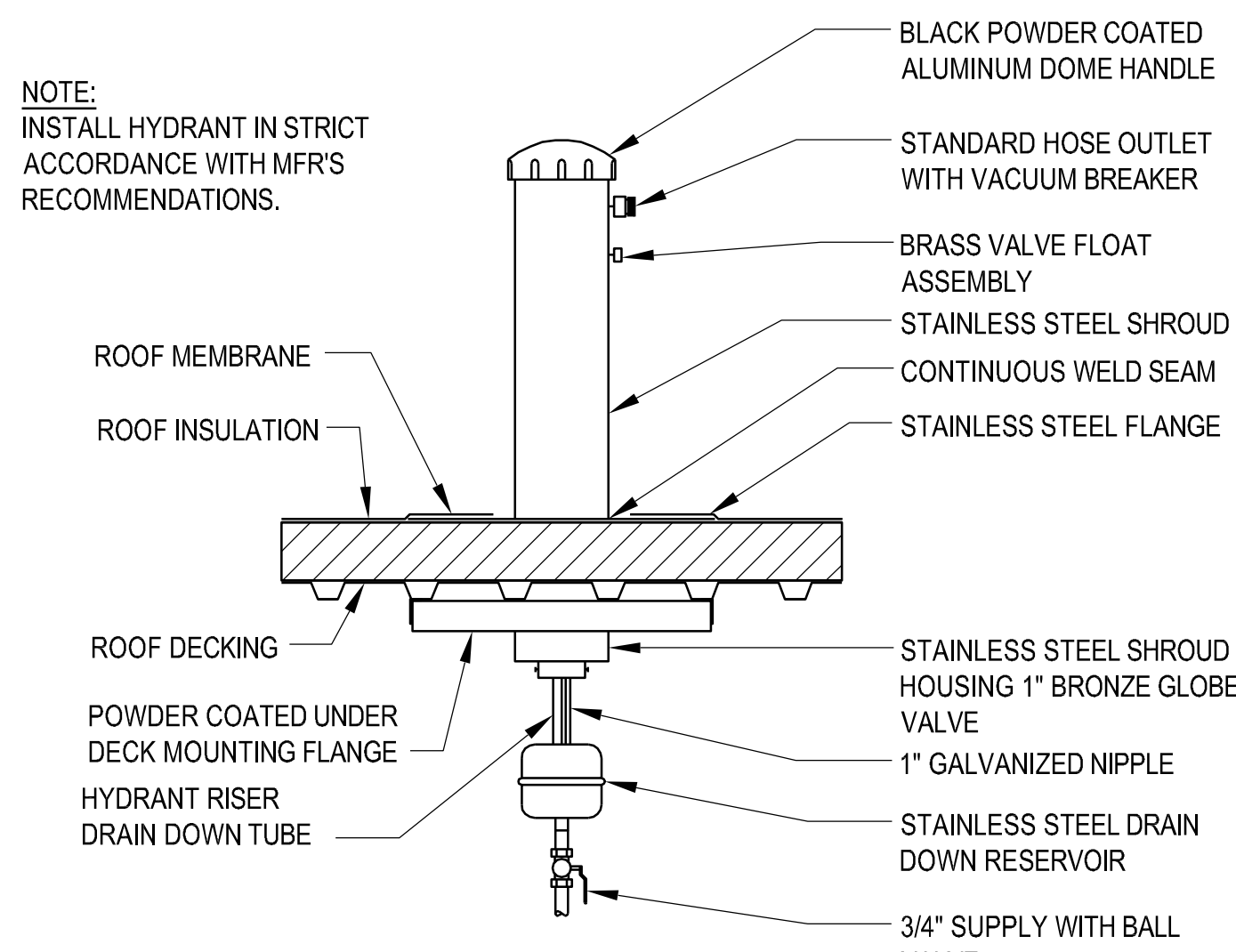
6 MOP SINK FAUCET BRACING (P-502)  
NO SCALE



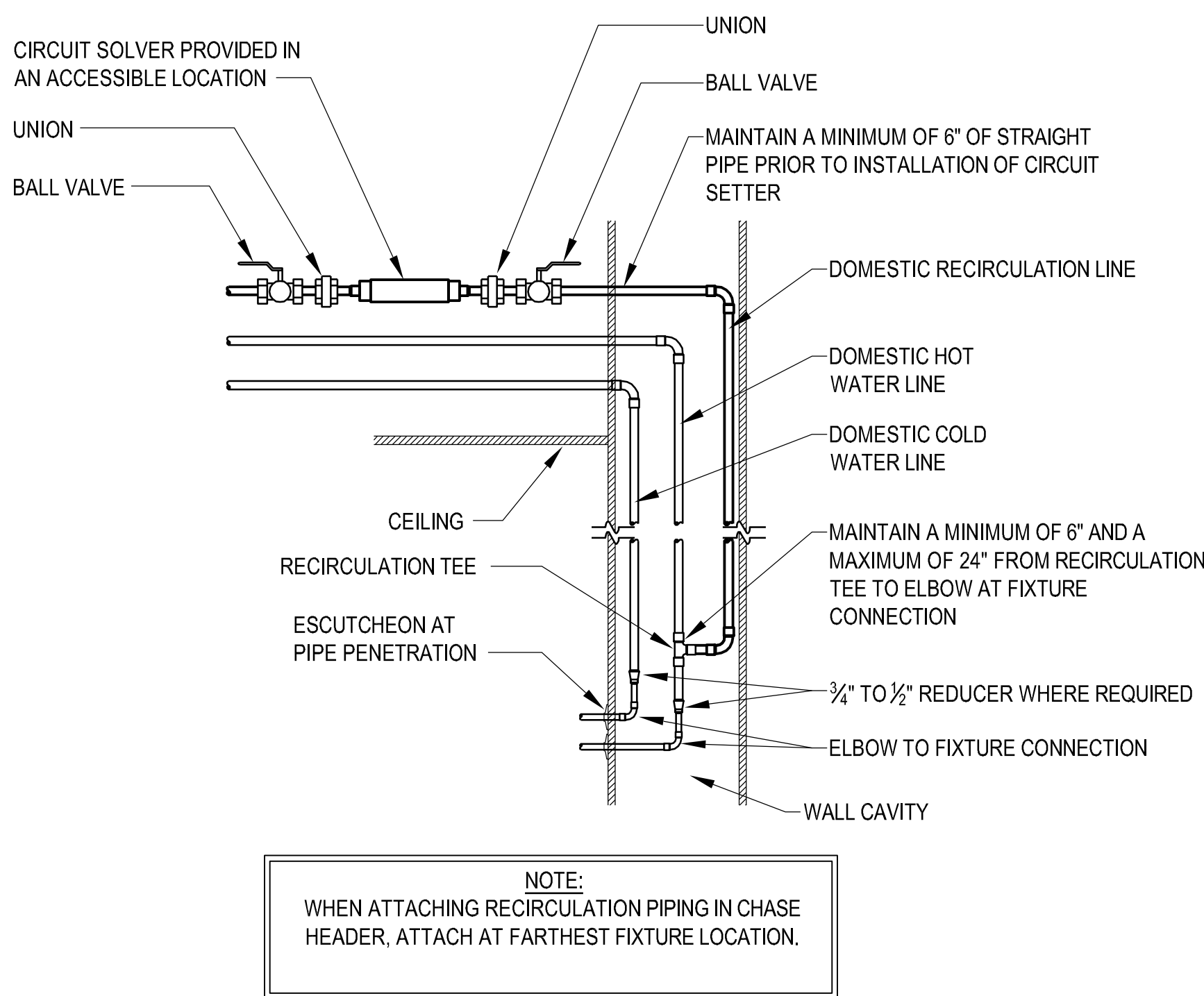
7 THERMOSTATIC MIXING VALVE STATION (WTV-1)  
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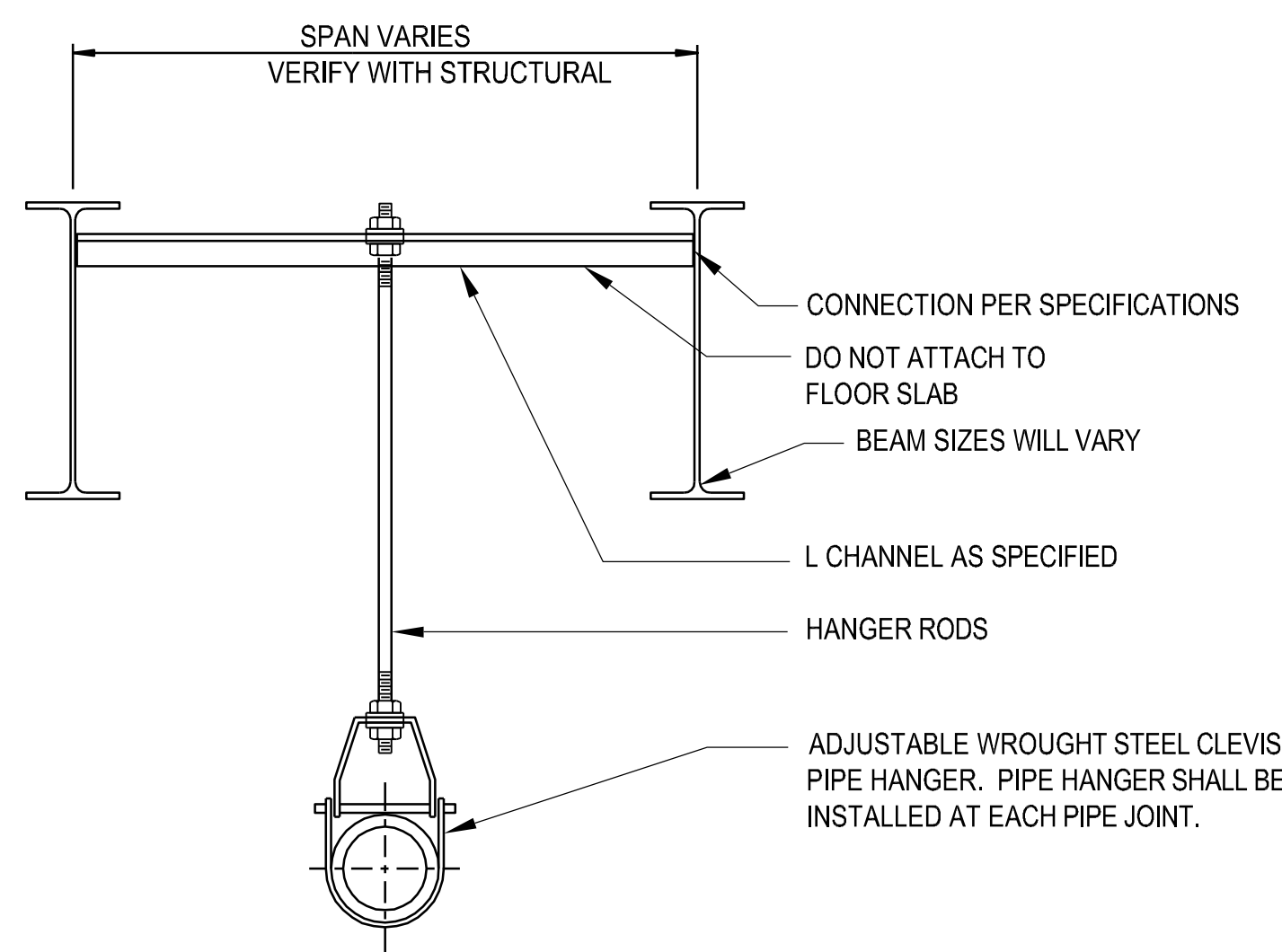
8 PIPE WALL SUPPORT  
NO SCALE



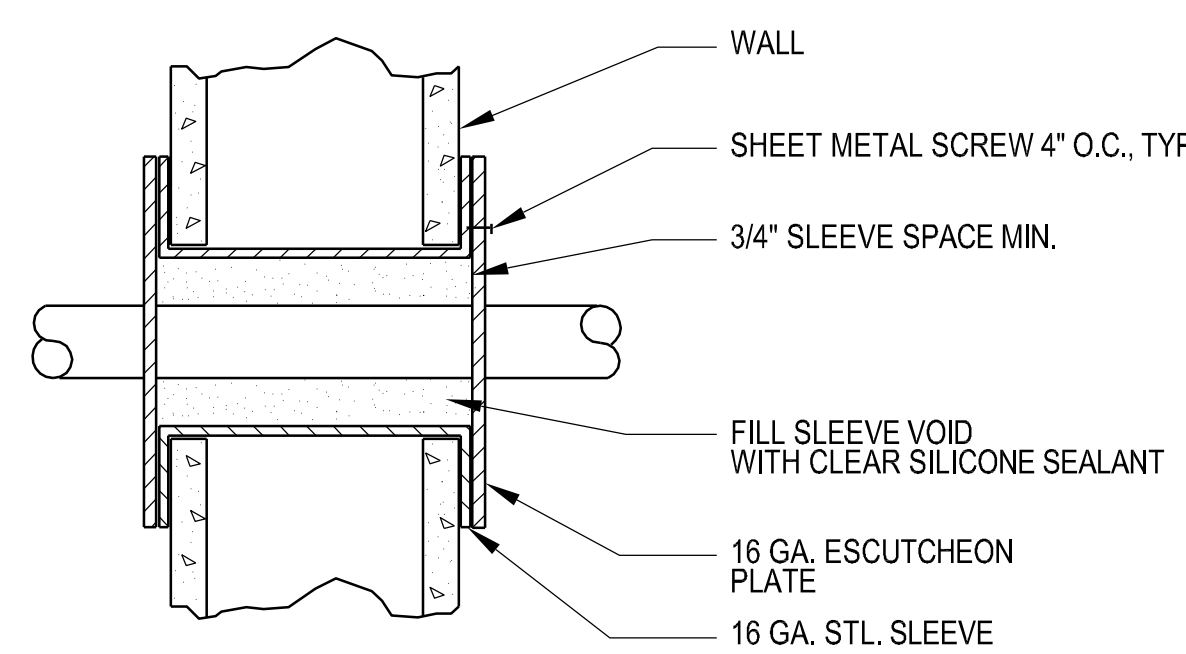
1 FREEZEPROOF ROOF HYDRANT (P-801A)  
NO SCALE



2 CIRCUIT SOLVER CONNECTION  
NO SCALE






3 PIPE SUPPORTING HANGER  
NO SCALE



4 EXTERIOR PIPE SLEEVE  
NO SCALE

CONSTRUCTION DOCUMENTS SUBMISSION  
FULLY SPRINKLERED

		<b>CONSULTANTS:</b>				<b>ARCHITECT/ENGINEERS:</b>		Drawing Title		Project Title		Project Number		<div>CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM</div> <div> Department of Veterans Affairs</div>			
		<b>CIVIL:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		<b>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900				 <div>BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716</div>		<b>EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS</b>		CSI-112					
										Approved: Project Director		Location				Building Number	
										LITTLE ROCK, ARKANSAS		Drawing Number					
										Date		Drawn		Checked		PL502	
										2015.03.06		SMITH		SEAY		Dwg. 86 of 127	
Revisions:																	



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three inches = one foot

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one and one half inches = one foot

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one inch = one foot

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three quarters inch = one foot

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E

one half inch = one foot

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F

one quarter inch = one foot

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G

one eighth inch = one foot

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PLUMBING FIXTURE SCHEDULE

(NOTE: FIXTURES SCHEDULED ARE BASIS OF DESIGN. PROVIDE "EQUAL TO" FIXTURES SCHEDULED. FIXTURE SHALL COMPLY WITH "BUY AMERICAN ACT")

P-101 WATER CLOSET, FLOOR-MOUNTED, MANUAL OPERATED FLUSH VALVE, ADA ACCESSIBLE  
FIXTURE - **AMERICAN STANDARD** "MADERA 17-14"H" **#3443.001**, VITREOUS CHINA WITH EVERCLEAN, WHITE, FLOOR MOUNTED, 1.1 TO 1.6 GPF, 2 1/8" PASSAGEWAY, 1 1/2" TOP SPUD, SIPHON JET FLUSHING, ELONGATED BOWL, INTEGRAL STOPS, AND INTEGRAL TRAPS.  
FLUSH VALVE - **ZURN** "AQUAVANTAGE" **#26000AV-WS1** 1.6 GALLON PER FLUSH, LOW CONSUMPTION FLUSH VALVE.  
SEAT - **AMERICAN STANDARD** **#5901.110**, HEAVY ELONGATED OPEN FRONT SEAT LESS COVER, EVERCLEAN SURFACE, CONCEALED CHECK HINGES.  
PLUMBING ROUGH-INS - 4" SS, 2" V, 1" CW  
MOUNTING - RIM AT 17"-19" A.F.F (SEE ACCESSIBLE NOTES FOR ADDITIONAL REQUIREMENTS).

P-101A WATER CLOSET, FLOOR-MOUNTED, REAR OUTLET, PUSH BUTTON FLUSH VALVE, MENTAL HEALTH AREA  
FIXTURE - **AMERICAN STANDARD** "HURON" **#3341.001**, VITREOUS CHINA WITH PERMANENT EVERCLEAN, FLOOR MOUNT REAR OUTLET WITH ANGLE BACK AND BASE, 1 1/2" BACK SPUD INLET, SIPHON JET FLUSH ACTION, WALL SLEEVE, ELONGATED TOILET BOWL WITH INTEGRAL SEAT, 1.6 GALLON LOW CONSUMPTION, FULLY GLAZED 2" TRAPWAY, 12" X 10" WATER SURFACE AREA, 4 BOLTS CAPS, (COLOR WHITE).  
FLUSH VALVE - **SLOAN** **#9603-1.6-MBFW**, CONCEALED HYDRAULICALLY ACTIVATED WATER CLOSET FLUSHOMETER FOR BACK SPUD WATER CLOSET, 1.6 GALLON LOW CONSUMPTION, METAL PUSH BUTTON WALL ACTUATOR  
PLUMBING ROUGH-INS - 4" SS, 2" V, 1" CW  
MOUNTING HEIGHT - RIM AT 18" A.F.F.

P-114-M WATER CLOSET, FLOOR-MOUNTED, BARIATRIC, MANUAL OPERATED FLUSH VALVE, MODIFIED  
FIXTURE - **AMERICAN STANDARD** "FLOWISE" **#3641.001**, WHITE, VITREOUS CHINA, 1.6 GALLON DIRECT-FED SIPHON JET FLUSHING ACTION, LOW CONSUMPTION, ANTI-BACTERIA INHIBITORS, ELONGATED BOWL, FULLY GLAZED 2" TRAPWAY, 1 1/2" TOP SPU, LOAD TESTED TO 2,000 LBS. (COLOR WHITE).  
FLUSH VALVE - **ZURN** "AQUAVANTAGE" **#26000AV-WS1** 1.6 GALLON PER FLUSH, LOW CONSUMPTION FLUSH VALVE.  
SEAT - AMERICAN STANDARD OPEN FRONT WHITE SEAT LESS COVER INCLUDED.  
PLUMBING ROUGH-INS - 4" SS, 2" V, 1" CW.  
MOUNTING HEIGHT - RIM AT 17" A.F.F (SEE ADA COMPLIANT NOTES FOR ADDITIONAL REQUIREMENTS).

P-401 LAVATORY, WALL HUNG, MENTAL HEALTH AREA, ADA ACCESSIBLE.  
FIXTURE - **BRADLEY** "SAFECARE" **#HSL1-R-TMA-TL-TC-AL-BRKT-S-CHROME** SINGLE STATION LIGATURE-RESISTANT LAVATORY, VANDAL-RESISTANT TERREON SOLID SURFACE MATERIAL, PRE-ASSEMBLED LAVATORY SPRAYHEAD WITH INFRARED CONTROL AND 24V, 5/60 HZ SOLENOID VALVE, 0.5 GPM FLOW RATE, NAVIGATOR THERMOSTATIC MIXING VALVE, SINGLE TEMPERED LINE, SURFACE-MOUNTED BRACKET, LEAD- FREE STOPS WITH FLEXIBLE STAINLESS STEEL SUPPLY CONNECTIONS, CHROME-PLATED "P" TRAP, GRID STRAINER AND TAILPIECE, CLASS II 110/24VAC PLUG-IN TRANSFORMER PLUGS INTO STANDARD GFCI ELECTRICAL OUTLET, 22 GUAGE TYPE 304 STAINLESS STEEL TRAP COVER WITH A #4 FINISH, CONCEALS ALL PLUMBING TO MINIMIZE LIGATURE POINTS.  
PLUMBING ROUGH-IN - 2" SS, 2" V, 1/2" CW, 1/2" HW.  
MOUNTING HEIGHT - SEE ADA ACCESSIBLE NOTES FOR ADDITIONAL REQUIREMENTS

P-413 LAVATORY, COUNTERTOP, GOOSENECK FAUCET  
FIXTURE - **AMERICAN STANDARD** "AQUALYN" **#0476.028**, 20 3/8" X 17 3/8" X 7", SELF-RIMMING COUNTER TOP, WHITE, VITREOUS CHINA, THREE 1 1/2" FAUCET HOLES ON 4" CENTER, FRONT OVERFLOW.  
FAUCET - **T & S BRASS** **#B-1141-WH4** DECK MOUNTED FAUCET WITH 5 3/4" RIGID GOOSENECK SPOUT ON 4" CENTER SET, 0.5 LAMINAR FLOW RATE AND 4" WRIST BLAD HANDLES  
GRID STRAINER - **McGUIRE** **#155WC** OFFSET TYPE, 1 1/4", ADJUST SANITARY SEWER ROUGH-IN LOCATION TO ACCOMMODATE OFFSET GRID STRAINER.  
STOPS - **McGUIRE** **#LF2165CCLK**, LEAD FREE, LOOSE KEY, COMPRESSION CONNECTION, 1/2" x 3/8" O.D.  
P-TRAP - **McGUIRE** **#B8872**, 1-1/4" INLET/OUTLET, 17 GA. CHROME PLATED CAST BRASS WITH CLEANOUT.  
COVERS - **TRUEBRO PRODUCTS** TRAP AND SUPPLY COVERS.  
PLUMBING ROUGH-INS - 2" SS, 2" V, 1/2" CW, 1/2" HW.  
MOUNTING HEIGHT - SEE ADA ACCESSIBLE NOTES FOR ADDITIONAL REQUIREMENTS.

P-414 LAVATORY, WALL HUNG, GOOSENECK FAUCET  
FIXTURE - **AMERICAN STANDARD** "ROXALYN" **#0195.073**, 20" X 18" x 7", WHITE, VITREOUS CHINA, THREE 1 1/2" FAUCET HOLE ON 4" CENTER, CONCEALED ARM.  
FAUCET - **T & S BRASS** **#B-1141-WH4** LEAD FREE, DECK MOUNTED FAUCET WITH 5 3/4" RIGID GOOSENECK SPOUT ON 4" CENTER SET, 0.5 LAMINAR FLOW RATE AND 4" WRIST BLAD HANDLES .  
**GRID STRAINER - McGUIRE #155WC** OFFSET TYPE, 1-1/4", ADJUST SANITARY SEWER ROUGH-IN LOCATION TO ACCOMMODATE OFFSET GRID STRAINER.  
STOPS - **McGUIRE** **#LF2165CCLK**, LEAD FREE, LOOSE KEY, COMPRESSION CONNECTION, 1/2" x 3/8" O.D.  
P-TRAP - **McGUIRE** **#8872**, 1-1/4" INLET/OUTLET, 17 GA. CHROME PLATED CAST BRASS WITH CLEANOUT.  
CARRIER - **ZURN** **#1231** CONCEALED ARM WALL CARRIER.  
PLUMBING ROUGH-INS - 2" SS, 2" V, 1/2" CW, 1/2" HW  
MOUNTING HEIGHT - SEE ARCHITECTURAL DETAILS.

P-418 LAVATORY, WALL HUNG, GOOSENECK SPOUT, SENSOR OPERATED FAUCET, ADA ACCESSIBLE  
FIXTURE - **AMERICAN STANDARD** "DECLYN" **#0321.075**, 18 1/2" X 17" X 6", VITREOUS CHINA, REAR OVERFLOW, FAUCET HOLES 4" CENTERS, FAUCET - **CHICAGO FAUCET** **#116.102.AB.1**, LEAD FREE, SENSOR OPERATED, SINGLE HOLE, HARD WIRED, 0.5 GPM LOW FLOW, VANDAL RESISTANT AERATOR, POWER SUPPLY TRANSFORMER CHICAGO #240.631.00.1 ABOVE CEILING CONCEALED 120 VAC/12 VAC TRANSFORMER (WILL OPERATE UP TO 8 FAUCETS).  
MIXING VALVE - **LAWLER** **#TMM-1070LF**, LEAD FREE, BELOW DECK MECHANICAL THERMOSTATIC MIXING VALVE (SET @ 110°F).  
GRID STRAINER - **McGUIRE** **#155WC** OFFSET TYPE, 1 1/4", ADJUST SANITARY SEWER ROUGH-IN LOCATION TO ACCOMMODATE OFFSET GRID STRAINER.  
STOPS - **McGUIRE** **#LF2165CCLK**, LEAD FREE, LOOSE KEY, COMPRESSION CONNECTION 1/2" x 3/8" O.D.  
P-TRAP - **McGUIRE** **#8872**, 1-1/4" INLET/OUTLET, 17 GA. CHROME PLATED CAST BRASS WITH CLEANOUT.  
COVERS - **TRUEBRO PRODUCTS** TRAP AND SUPPLY COVERS.  
CARRIER - **WADE** **#520-M24**.  
PLUMBING ROUGH-IN - 2" SS, 2" V, 1/2" CW, 1/2" HW.  
MOUNTING HEIGHT - 34" AFF. (SEE ADA COMPLIANT NOTES FOR ADDITIONAL REQUIREMENTS).

P-420 LAVATORY, COUNTERTOP, SENSOR OPERATED FAUCET, ADA ACCESSIBLE  
FIXTURE - **AMERICAN STANDARD** "AQUALYN" **#0476.028**, 20 3/8" X 17 3/8" x 5 3/8", SELF-RIMMING COUNTER TOP, WHITE, VITREOUS CHINA, CENTER SINGLE FAUCET HOLE.  
FAUCET - **CHICAGO FAUCET** **#116.102.AB.1** LEAD FREE, SENSOR OPERATED, SINGLE HOLE, HARD WIRED, 0.5 GPM LOW FLOW, VANDAL RESISTANT AERATOR, POWER SUPPLY TRANSFORMER CHICAGO #240.631.00.1 ABOVE CEILING CONCEALED 120 VAC/12 VAC TRANSFORMER (WILL OPERATE UP TO 8 FAUCETS).  
MIXING VALVE - **LAWLER** **#TMM-1070LF**, LEAD FREE, BELOW DECK MECHANICAL THERMOSTATIC MIXING VALVE (SET @ 110°F).  
GRID STRAINER - **McGUIRE** **#WC155** OFFSET TYPE, 1 1/4", ADJUST SANITARY SEWER ROUGH-IN LOCATION TO ACCOMMODATE COUNTERTOP BY ARCHITECT.  
STOPS - **McGUIRE** **#LF2165CCLK**, LEAD FREE, LOOSE KEY, COMPRESSION CONNECTION, 1/2" x 3/8" O.D.  
P-TRAP - **McGUIRE** **#8872**, 1 1/4" INLET/OUTLET, 17 GA. CHROME PLATED CAST BRASS WITH CLEANOUT.  
MIXING VALVE - **LAWLER** **#TMM-1070LF**, LEAD FREE, BELOW DECK MECHANICAL THERMOSTATIC MIXING VALVE (SET @ 110°F).  
PLUMBING ROUGH-INS - 2" SS, 2" V, 1/2" CW, 1/2" HW  
MOUNTING HEIGHT - 34" AFF. (SEE ACCESSIBLE NOTES FOR ADDITIONAL REQUIREMENTS).

P-502 MOP SINK, FLOOR MOUNT  
FIXTURE - AMERICAN STANDARD "FLORWELL" **#7741.000**, 28" X 28" X 13", ENAMEL CAST IRON WITH **#7745.811** REMOVABLE VINYL RIM GUARD (BLACK), ACID RESISTANT, CORNER FLOOR SINK.  
FAUCET - **#8344.112** ROUGH CHROME PLATED FAUCET WITH VACUUM BREAKER AND PAIL HOOK, MOUNTED 36" A.F.F.  
ACCESSORIES - **FIAT PRODUCTS** **#989-CC** STAINLESS STEEL MOP HANGER, (2) **#832-AA 36"** RUBBER HOSE AND HOSE HANGER, CAULK JOINTS BETWEEN SINK AND WALL WITH **#833-AA** SILICONE SEALANT.  
PLUMBING ROUGH-INS - 3" SS, 2" V, 1/2" CW, 1/2" HW.

P-528 SINGLE COMPARTMENT SINK, COUNTERTOP, STAINLESS STEEL  
FIXTURE - **ELKAY** "LUSTERTONE" **#LRAD2521**, 25" X 21 1/4" X 6 1/2", 18-GUAGE, TYPE 304 STAINLESS STEEL, SELF RIMMING, FOUR 1 1/2" FAUCET HOLES ON 4" CENTERS, 21" X 15 3/4" X 6 1/2" INSIDE BOWL, OFF-CENTER DRAIN.  
FAUCET - **ELKAY** **#LK1001** DECK MOUNTED FAUCET WITH SWING SPOUT AND SINGLE LEVER HANDLE, FLEXIBLE SPRAY HOSE, 8" CENTER SET, 1.5 GPM LAMINAR FLOW VANDAL RESISTANT AERATOR.  
DISPOSER - **IN-SINK-ERATOR** **#BADGER 5** CONTINUOUS FEED, WALL SWITCH, 1/2 HP MOTOR, 1725 RPM, MANUAL RESET OVERLOAD, 120 VOLTS/1 PHASE, 6.9 AMPS.  
STOPS - **McGUIRE** **#LF2165CCLK**, LEAD FREE, LOOSE KEY, COMPRESSION CONNECTION, 1/2" x 3/8" O.D.  
P-TRAP - **McGUIRE** **#B8912**, 1 1/2" INLET/OUTLET, 17 GA. CHROME PLATED CAST BRASS WITH CLEANOUT.  
COVERS - **TRUEBRO PRODUCTS** TRAP AND SUPPLY COVERS WHERE KNEE GUARD IS NOT INSTALLED.  
PLUMBING ROUGH-INS - 2" SS, 2" V, 1/2" CW, 1/2" HW.

P-604 ELECTRIC WATER COOLER, BARRIER FREE, WALL-HUNG, ADA ACCESSIBLE  
FIXTURE - **OASIS** "VERSACOOLER II" **#PGF8AC**, LEAD FREE, WALL-HUNG, BARRIER FREE, 8.0 GPH, 50°F DRINKING WATER WITH 90°F AMBIENT AIR AND 80°F ENTERING WATER, ONE BUBBLERS TO MEET ADA REQUIREMENTS, 18 GAUGE, 304 STAINLESS STEEL, STANDARD FINISH, POLISHED CHROME PLATED BRASS ANTIROTATION NON-SQUIRT BUBBLER, 100 MESH INLET STRAINER, VANDAL RESISTANT SCREWS, MOUNTING FRAME, LOUVERED GRILLE PANEL, INTEGRAL P-TRAPS, 1/4 HP, 115V/1 PHASE,  
STOPS - **McGUIRE** **LFST17LK**, LEAD FREE, LOOSE KEY, COMPRESSION CONNECTION, 1/2" x 3/8" O.D.  
CARRIER - INTEGRAL TO UNIT.  
PLUMBING ROUGH-IN - 2" SS, 2" V, 1/2" CW.  
RIM MOUNTING HEIGHT - 31 3/8" AFF. (SEE ADA ACCESSIBLE NOTES FOR ADDITIONAL REQUIREMENTS).

P-703 SHOWER (TILE BUILT-UP), ADA ACCESSIBLE, ROLL-IN SHOWER  
SHOWER VALVE - **ZURN** "TEMP-GUARD III" **#Z7300-SSC-HW11-MT-VB**, PRESSURE-BALANCING MIXING VALVE WITH LEVER HANDLE, INTEGRAL SERVICE STOPS AND ADJUSTABLE STOP SCREW, IN-LINE VACUUM BREAKER, 2.5 GPM CHROME WALL/HAND SHOWER WITH 60" FLEXIBLE METAL HOSE, WALL CONNECTION AND FLANGE, 30" SLIDE BAR  
NOTE: SEE MANUFACTURER INSTALLATION FOR MOUNTING HEIGHT OF MIXING VALVE, HOSE, VACUUM BREAKER, AND WALL BRACKET.  
DRAIN - **ZURN** **#ZN415-H**, CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENING, 6" DIAMETER POLISHED NICKEL BRONZE FINISHED STRAINER, 2", 3" & 4" PIPE.  
PLUMBING ROUGH-INS - 2" SS, 2" V, 1/2" CW, 1/2" HW.

P-801 FREEZELESS WALL HYDRANT  
FIXTURE - **WOODFORD** **#MODEL B67** AUTOMATIC DRAINING WITH DOUBLE CHECK BACKFLOW PREVENTER, 3/4" HOSE THREAD NOZZLE, LOOSE TEE KEY HANDLE.  
PLUMBING ROUGH-INS - 3/4" CW.

P-801A FREEZEPROOF ROOF HYDRANT  
FIXTURE - **MAPA** **#MPH-24FP**, AUTO DRAINING, BLACK POWDER COATED CAST ALUMINUM WEATHER -GUARD DOME HANDLE, 304 STAINLESS STEEL SHROUD WITH FLANGE, 125 LB. 1" BRONZE GLOBE VALVE WITH QUICK DISCONNECT AND BUILT-IN VACUUM BREAKER, STAINLESS STEEL RESERVOIR, R-8/THERMO-CELL INSULATION AND UNDER DECK SUPPORT FLANGE.  
PLUMBING ROUGH-INS - 3/4" CW.

DS-1 CORNER MOUNTED WALL SHOWER STATION, DECONTAMINATION AREA  
FIXTURE - **WILLOUGHBY** **#CWKS-HAPS**, 16 GAUGE, TYPE 304 STAINLESS STEEL, SINGLE TEMP COMPRESSION, APS ADJUSTABLE SPRAY/VANDAL RESISTANT SHOWERHEAD AND MOUNTING BRACKET, MOUNT WITH SHOWERHEAD 6-0" A.F.F.  
PLUMBING SUPPLY - 3/4" TEMPERED WATER

DS-2 OVERHEAD SHOWER STATION, DECONTAMINATION AREA  
FIXTURE - **GUARDIAN** **#G-5020** RC RETRACTABLE CEILING MOUNTED DRENCH HOSE OPEN REEL, **#G5016** WALL MOUNTED DRENCH UNIT, SINGLE FS-PLUS SPRAY HEAD WITH "FLIP TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER, FORGED BRAGG SQUEEZE VALVE ACTIVATED BY STAINLESS STEEL LEVER HANDLE, 8" REINFORCED NYLON RETRACCTABLE COILED HOSE, MOUNTING BRACKET WITH SPRING CLIPS, 1/2" FEMALE INLET.  
PLUMBING SUPPLY - 1" TEMPERED WATER.

FD-1 FLOOR DRAIN, TOILETS AND FINISHED AREAS  
FIXTURE - **ZURN** **#ZN415-H**, CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENING, 6" DIAMETER POLISHED NICKEL BRONZE FINISHED STRAINER, 2", 3" & 4" PIPE. PROVIDE **SURE SEAL** INLINE TRAP SEALER INSERT.  
PLUMBING ROUGH-INS - 2", 3", 4" SS, 2" V.

FS-1 FLOOR SINK, DECONTAMINATION AREA  
FIXTURE - **ZURN** **#Z1901-ZN-4-19-32**, 12"X12" SQUARE TOP IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING FULL HINGED GRATE, MEDIUM DUTY, ACID RESIST EPOXY COATED (A.R.C.) CAST IRON, ALUMINUM DOME STRAINER, INSTALL DEEP-SEAL TRAPS, **SURE SEAL** INLINE TRAP SEALER INSERT.

RD-1 ROOF DRAIN  
FIXTURE - **ZURN** **#ZC100-C-EA**, CAST IRON ROOF DRAIN WITH FLANGE, CAST IRON MUSHROOM DOME, (-C) UNDERDECK CLAMPING, (-EA) ADJUSTABLE EXTENSION ASSEMBLY, SEE PLAN FOR SIZE.  
PLUMBING ROUGH-INS - SEE PLAN.

ORD-1 AUXILIARY ROOF DRAIN  
SAME AS RD-1, EXCEPT WITH 2" WATER DAM AND (-WS OPTION) STAINLESS STEEL RAIN COVER.  
PLUMBING ROUGH-INS - SEE PLAN.

WCO WALL CLEANOUT  
FIXTURE - **ZURN** **#Z-1441-BP SERIES** CLEANOUT CAST IRON FERRULE WITH BRASS PLUG, AND ROUND STAINLESS STEEL SECURE ACCESS COVER. USE CORRECT SIZE FOR PIPING INDICATED ON PLANS.

FCO FLOOR CLEANOUT  
FIXTURE - **ZURN** **#ZN1400-HD SERIES** ADJUSTABLE, HEAVY DUTY CAST IRON FLOOR OUTLET, BRONZE PLUG, POLISHED NICKLE BRONZE TOP AND THREADED INSERTS.

COTG/DCOTG CLEANOUT TO GRADE/DOUBLE CLEANOUT TO GRADE  
FIXTURE - **ZURN** **#ZN1400-HD SERIES** ADJUSTABLE, HEAVY DUTY CAST IRONGROUND OUTLET, BRONZE PLUG, POLISHED NICKEL BRONZE TOP AND THREADED INSERTS.

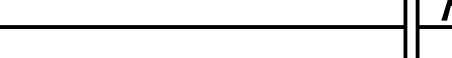
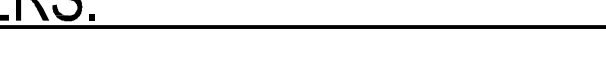

WTV-1 THERMOSTATIC MIXING VALVE CONTROL STATION - MIXING VALVE AND CIRCULATING PUMP  
FIXTURE - **LEONARD** "MEGATRON" MDL. **#3N-RP1-1**, LEAD FREE, H4O THERMOSTATIC MIXING VALVE/CIRCULATING STATION, 1" HOT/COLD INLET, 1 1/2" MIXED OUTLET, 1" HOT WATER RETURN PIPING. FACTORY MODIFIED INLET/OUTLET CONNECTIONS, 1.0 TO 40 GPM AT 10 PSI DROP, ASSE 1017, COMBINATION STRAINER CHECKSTOP, FULL PORT BALL VALVES, TEST CONNECTION, DIAL THERMOMETER, PRESSURE GAUGE, SPRING LOAD CHECK VALVE, 110°F SET TEMPERATURE, AQUASTAT WITH TIMER. UNI-STRUT FRAME MOUNTED TO WALL.

WATER HAMMER ARRESTORS  
**WADE** "SHOKTROL" WHERE REQUIRED IN PIPING SYSTEMS, PROPERLY SIZED WATER HAMMER ARRESTERS SHALL BE PROVIDED. WATER HAMMER ARRESTERS SHALL BE LOCATED ON ALL QUICK CLOSING VALVE (FLUSH VALVES, DISHWASHERS, ICE MAKERS, SOLENOID VALVES, ETC.)

WATER HAMMER ARRESTOR

WADE SHOKTROL SIZE	#5	#10	#20	#50	#75	#100
P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

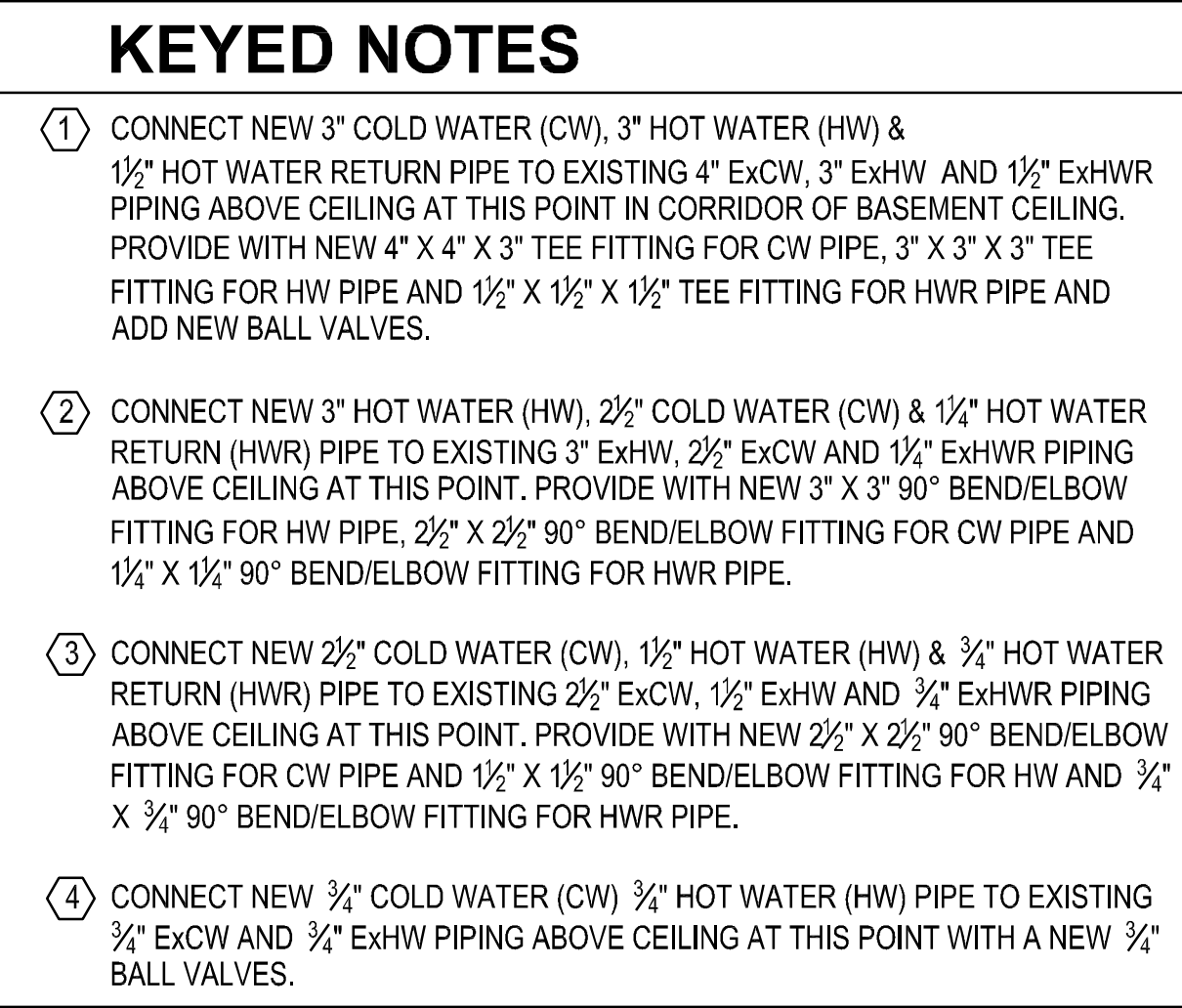
CONSTRUCTION DOCUMENTS SUBMISSION  
FULLY SPRINKLERED

		<b>CONSULTANTS:</b>  <b>CIVIL:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900  <b>MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION:</b> CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900				<b>ARCHITECT/ENGINEERS:</b>    BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		<div>Drawing Title <b>PLUMBING FIXTURE SCHEDULE &amp; LEGEND</b></div> <div>Approved: Project Director</div>		<div>Project Title <b>EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS</b></div> <div>Location <b>LITTLE ROCK, ARKANSAS</b></div> <div>Date <b>2015.03.06</b></div> <div>Drawn SMITH</div> <div>Checked SEAY</div>		<div>Project Number <b>CSI-112</b></div> <div>Building Number 1</div> <div>Drawing Number  <b>PL601</b></div> <div>Dwg. 87 of 127</div>		<div>CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM</div> <div> Department of Veterans Affairs</div>	
Revisions:		Date													









WATER HAMMER ARRESTOR						
WADE SHOKTROL SIZE	#5	#10	#20	#50	#75	#100
P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

CENTRAL  
ARKANSAS  
VETERANS AFFAIRS  
HEALTHCARE  
SYSTEM



Department of  
Veterans Affairs

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A

three inches = one foot

1

one and one half inches = one foot

2

one inch = one foot

three quarters inch = one foot

4

one half inch = one foot

three eighths inch = one foot

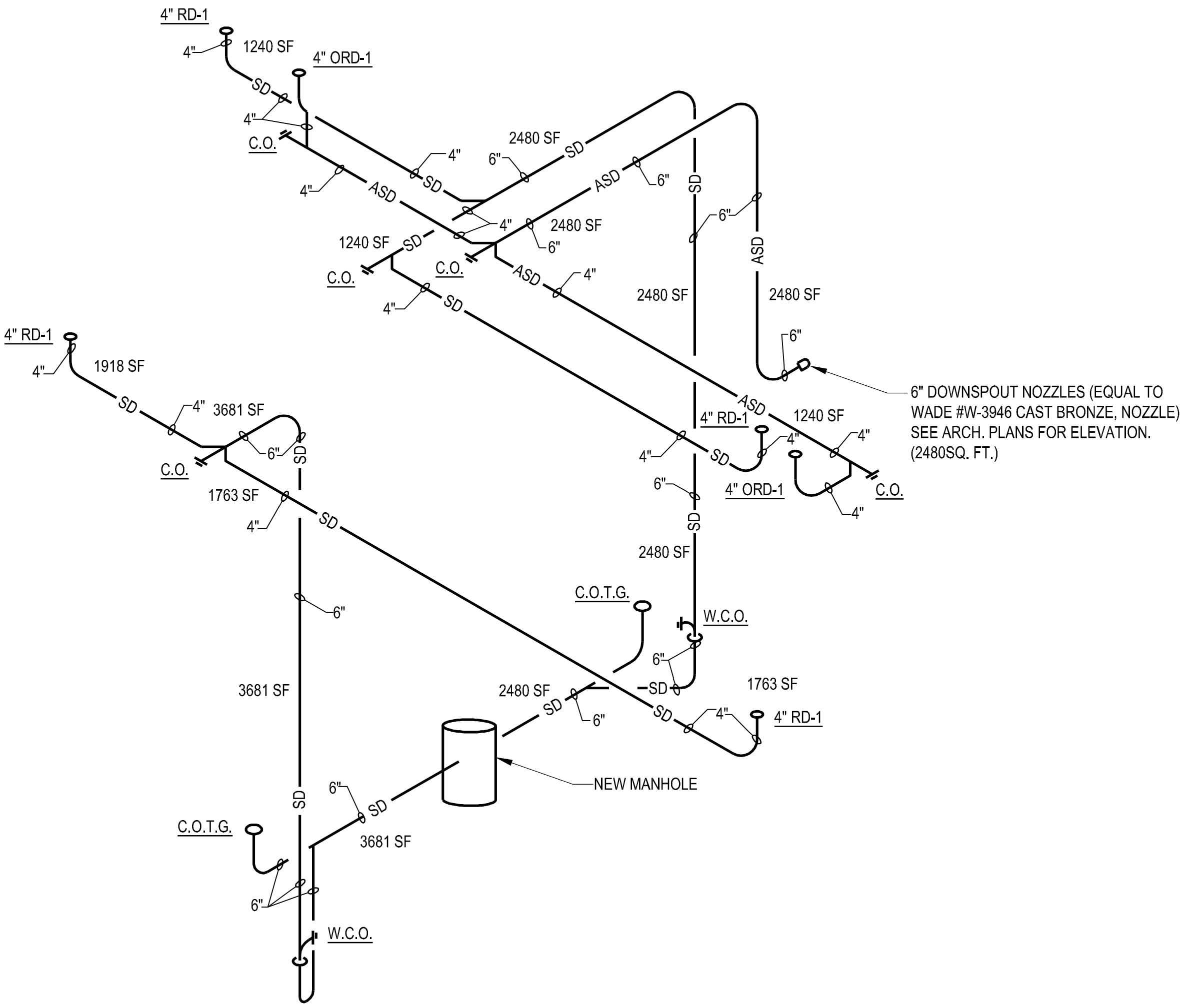
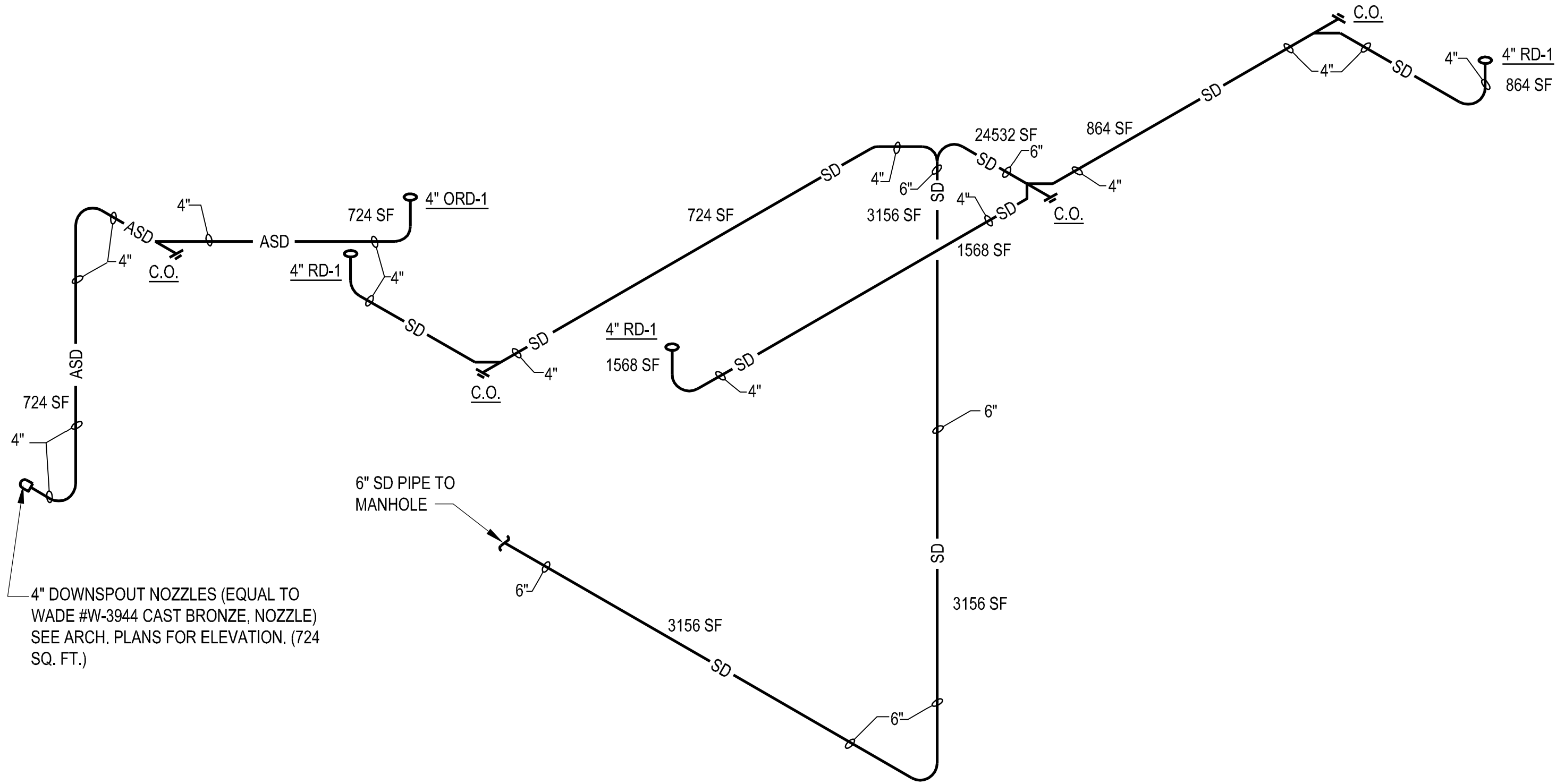
8

one quarter inch = one foot

16

one eighth inch = one foot

32



1

STORM SEWER RISER DIAGRAMS

NO SCALE

Revisions:		Date:		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Building Number		Drawing Number		Dwg. 90 of 127	
				CIVIL: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		BES DESIGN/BUILD		STORM SEWER RISER DIAGRAMS		EMERGENCY DEPARTMENT MENTAL HEALTH IMPROVEMENTS		CSI-112		1		PL903	
						BES DESIGN/BUILD		Approved: Project Director		Location LITTLE ROCK, ARKANSAS		Date 2015.03.06		Drawn SMITH		Checked SEAY		Dwg. 90 of 127	

A

B

C

D

E



